Saratoga Street Shoreline Restoration

Expanded Environmental Notification Form

Prepared For:
Massachusetts Port Authority
Boston, Massachusetts

Prepared by:
Foth Infrastructure and Environment
15 Creek Road Marion, MA 02738

December 2025

Massachusetts Port Authority
One Harborside Drive, Suite 200S
East Boston, MA 02128-2090
Telephone (617) 568-5950
www.massport.com

December 1, 2025

Secretary Rebecca Tepper
Secretary of Energy and Environmental Affairs
Attn: MEPA Office
100 Cambridge Street, Suite 900
Boston, MA 02114

Re: Saratoga Street Shoreline Restoration Project
Environmental Notification Form & Proposed Environmental Impact Report
1257 & 1263 Saratoga Street, Boston, MA 02128

Dear Secretary Tepper:

The Massachusetts Port Authority (Massport) is pleased to submit the enclosed Expanded Environmental Notification Form (EENF) and Proposed Environmental Impact Report (PEIR) for the Saratoga Street Shoreline Restoration Project for review under the provisions of the Massachusetts Environmental Policy Act (MEPA). An electronic copy of the EENF/PEIR has been provided to all required recipients, shown in the attached Distribution List. Additional electronic copies and hard copies are available upon request.

We are respectfully requesting that the Secretary allow a Rollover Environmental Impact Report (EIR) in accordance with 301 CMR 11.06(13). The proposed project will offer significant benefits by creating additional coastal resource areas and protecting existing ones, along with adjacent infrastructure. Massport has had ongoing coordination with local, state, and federal agencies, and has conducted community outreach, collaborating with stakeholders and community-based organizations. Massport will continue these efforts to ensure comprehensive input and support throughout the project's development.

Please notice the EENF in the Environmental Monitor to be published on December 10, 2025. According to the current Environmental Monitor publication schedule, the public comment period will extend through January 9, 2026, and the EENF decision will be issued on January 16, 2026. If you have any questions or should require additional information, please contact me at 617-568-3524, or via email at cbusch@massport.com.

Sincerely,

Chris Busch, AICP
Senior Environmental Planner

Cc: Matthew Bessette, Chet Myers, Brad Washburn (Massport)
Scott Skuncik, P.E., Paul Marsala (Foth)

Massachusetts Port Authority Saratoga Street Shoreline Restoration
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Commonwealth of Massachusetts

Executive Office of Energy and Environmental Affairs
Massachusetts Environmental Policy Act (MEPA) Office

Environmental Notification Form

For Office Use Only

EEA#: _____

MEPA Analyst: _____

The information requested on this form must be completed in order to submit a document electronically for review under the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: **Saratoga Street Shoreline Restoration**		
Street Address: **1257-1263 Saratoga Street**		
Municipality: **Boston**	Watershed: **Boston Harbor**	
Universal Transverse Mercator Coordinates: **Northing: 4694181.29500; Easting: 335738.60800**	Latitude: **42.38256 N** Longitude: **70.99537 W**	
Estimated commencement date: **Fall 2026**	Estimated completion date: **Spring 2027**	
Project Type: **Coastal Infrastructure**	Status of project design: **30**% complete	
Proponent: **Massachusetts Port Authority (Massport)**		
Street Address: **1 Harborside Drive, Suite 216S**		
Municipality: **Boston**	State: **MA**	Zip Code: **02128**
Name of Contact Person: **Fiona Vardy**		
Firm/Agency: **Foth Infrastructure & Environment, LLC**	Street Address: **114 Touro Street**	
Municipality: **Newport**	State: **RI**	Zip Code: **02840**
Phone: **401-910-7720**	Fax:	E-mail: **Fiona.Vardy@Foth.com**

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
☐Yes ☒No

If this is an Expanded Environmental Notification Form (ENF) (see 301 CMR 11.05(7)) or a Notice of Project Change (NPC), are you requesting:

a Single EIR? (see 301 CMR 11.06(8))	☐Yes ☒No
a Rollover EIR? (see 301 CMR 11.06(13))	☒Yes ☐No
a Special Review Procedure? (see 301CMR 11.09)	☐Yes ☒No
a Waiver of mandatory EIR? (see 301 CMR 11.11)	☐Yes ☒No
a Phase I Waiver? (see 301 CMR 11.11)	☐Yes ☒No

(Note: Greenhouse Gas Emissions analysis must be included in the Expanded ENF.)

Which MEPA review threshold(s) does the project meet or exceed (see 301 CMR 11.03)?
[310 CMR 11.03(3)(b)1.a.] – Alteration of coastal dune, barrier beach, or coastal bank;
[310 CMR 11.03(3)(b)1.f.] – Alteration of ½ or more acres of any other wetlands;
[310 CMR 11.03(b)(6)] – Construction, reconstruction or Expansion of an existing solid fill structure of 1,000 or more square feet

Which State Agency Permits will the project require?
MassDEP 401 Water Quality Certification
Coastal Zone Management Federal Consistency Review *(will take place as a general concurrence during USACE interagency reviews)*

Identify any financial assistance or land transfer from an Agency of the Commonwealth, including the Agency name and the amount of funding or land area in acres: **N/A**

Summary of Project Size & Environmental Impacts	Existing	Change	Total
LAND			
Total site acreage	**1.48**		
New acres of land altered		**1.12**	
Acres of impervious area	**0**	**0**	**0**
Square feet of new bordering vegetated wetlands alteration		**0**	
Square feet of new other wetland alteration*		**22,330 LSCSF -21,890 Coastal Beach 1,600 sf LCS 320 linear feet (lf) Coastal Bank**	
Acres of new non-water dependent use of tidelands or waterways		**0**	
STRUCTURES			
Gross square footage	**N/A**	**N/A**	**N/A**
Number of housing units	**N/A**	**N/A**	**N/A**
Maximum height (feet)	**N/A**	**N/A**	**N/A**
TRANSPORTATION			
Vehicle trips per day	**N/A**	**N/A**	**N/A**
Parking spaces	**N/A**	**N/A**	**N/A**
WASTEWATER			
Water Use (Gallons per day)	**N/A**	**N/A**	**N/A**
Water withdrawal (GPD)	**N/A**	**N/A**	**N/A**
Wastewater generation/treatment (GPD)	**N/A**	**N/A**	**N/A**
Length of water mains (miles)	**N/A**	**N/A**	**N/A**
Length of sewer mains (miles)	**N/A**	**N/A**	**N/A**

Has this project been filed with MEPA before?
☐ Yes (EEA #_____) ☒No

Has any project on this site been filed with MEPA before?
☐ Yes (EEA #_____) ☒No

Negative values demonstrate area of coastal resource area restoration.

GENERAL PROJECT INFORMATION – all proponents must fill out this section

PROJECT DESCRIPTION:

Describe the existing conditions and land uses on the project site:

The Massachusetts Port Authority (Massport, or Proponent) is submitting an Expanded Environmental Notification Form (EENF) in accordance with the Massachusetts Environmental Policy Act (MEPA) (M.G.L. c. 30, ss. 61-62L) and its associated regulations (301 CMR 11.00). Massport is proposing to remove the deteriorated piles, timber pier, and bulkhead located at 1257 & 1263 Saratoga Street in Boston, Massachusetts (Parcel IDs 0104411002 & 0104412000, respectively), create a new shoreline and stabilize with a revetment, and establish approximately 21,890 square feet (sf) of coastal resource area (the Project). The Project aims to restore the shoreline on the site by removing the existing deteriorated timber pier, associated pilings, and bulkhead. Attachment C includes existing conditions site photographs. Additionally, the Project will focus on creating new coastal resource areas both within the footprint of the former pier and bulkhead and landward of it. By implementing these measures, the Project will enhance coastal resource areas and improve the overall resilience of the site and surrounding area. This EENF and supporting narrative describes the Project and its alternatives, and assesses its potential environmental impacts and mitigation measures, as described in 301 CMR 11.05(5).

Describe the proposed project and its programmatic and physical elements:

The proposed work includes the removal of the existing timber pier and bulkhead to one foot below mudline, the restoration of Coastal Beach within the footprint of the existing timber pier, and creation of coastal resource areas landward of the pier. The establishment of new coastal resource areas will involve the excavation of existing material, the construction of a rip rap revetment at a 1.5H:1V slope, and the replacement of material over the portion of revetment below the AHTL. A portion of the excavated material will be placed landward of the proposed coastal restoration area, while the remainder will be transported offsite for disposal. The proposed work will not increase the amount of impervious area at the Project site. One of the main goals of the Project is to ensure that the AUL on the upland portion of the site remains in place. The Coastal Beach restoration and shoreline stabilization will also provide improved protection against a 100-year storm event. The Project will not negatively impact the existing salt marsh that is located south of the area of work. Best management practices (BMPs) will be used to minimize impacts to resource areas throughout the construction process.

NOTE: The project description should summarize both the project's direct and indirect impacts (including construction period impacts) in terms of their magnitude, geographic extent, duration and frequency, and reversibility, as applicable. It should also discuss the infrastructure requirements of the project and the capacity of the municipal and/or regional infrastructure to sustain these requirements into the future.

Describe the on-site project alternatives (and alternative off-site locations, if applicable), considered by the proponent, including at least one feasible alternative that is allowed under current zoning, and the reasons(s) that they were not selected as the preferred alternative:

Several alternatives were considered and evaluated prior to selecting the preferred Project design. During this evaluation process, each option was assessed based on its ability to meet the Project's primary goals: protecting adjacent infrastructure while minimizing impacts to coastal resources and creating additional coastal resource area. The preferred design was chosen because it optimizes resiliency of the existing shoreline and maximizes the addition of resource area within the constraints of existing topography, roadway alignment, and surrounding wetlands. The alternatives analysis cross sections for both the preferred alternative and the Partially Buried 2H:1V Revetment with 7,300 sf Resource Area Restoration alternative are included in Attachment F to illustrate the comparative approach and demonstrate how the preferred alternative best meets Project objectives.

As further described in Section 3.0 of the attached Project Narrative (Attachment A), the alternatives considered include:

- **No Build;**
- **Vertical Sheet Pile Bulkhead;**
- **Engineered Vegetated Bank;**
- **Sloped Armor Stone Revetment;**
- **Only Remove Existing Timber Pier Structure;**
- **Partially Buried 2H:1V Revetment with 7,300 sf Resource Area Restoration; and**
- **Partially Buried 1.5H:1V Revetment with 21,890 sf Resource Area Restoration (Preferred)**

NOTE*: The purpose of the alternatives analysis is to consider what effect changing the parameters and/or siting of a project, or components thereof, will have on the environment, keeping in mind that the objective of the MEPA review process is to avoid or minimize damage to the environment to the greatest extent feasible. Examples of alternative projects include alternative site locations, alternative site uses, and alternative site configurations.*

Summarize the mitigation measures proposed to offset the impacts of the preferred alternative:

The Project aims to restore the shoreline on the site by removing the existing deteriorated timber pier and bulkhead. Additionally, it will focus on creating new coastal resource area both within the footprint of the former pier and landward of it. By implementing these measures, the Project will enhance coastal resource areas and habitat, and the overall resilience of the site and surrounding area. Section 4.0 in the Project Narrative (Attachment A) describes mitigation measures, and Section 4.1 includes construction period best management practices (BMPs).

If the project is proposed to be constructed in phases, please describe each phase:
It is anticipated that the Project will be constructed in one phase and will commence in the fall of 2026.

AREAS OF CRITICAL ENVIRONMENTAL CONCERN:
Is the project within or adjacent to an Area of Critical Environmental Concern?
☒Yes (Specify: **The Rumney Marshes ACEC is located north of the project site**
☐No
if yes, does the ACEC have an approved Resource Management Plan? _**X**_ Yes ___ No;
If yes, describe how the project complies with this plan. **The proposed shoreline restoration project aligns with the goals of the Rumney Marsh ACEC Salt Marsh Restoration Plan. The project aims to enhance the ecological integrity of the site by stabilizing the shoreline, reducing erosion, and promoting the growth of native vegetation. These efforts are consistent with the ACEC's objectives to protect and restore natural habitats, improve water quality, and support biodiversity.**

Will there be stormwater runoff or discharge to the designated ACEC? ___ Yes _**X**_ No;
If yes, describe and assess the potential impacts of such stormwater runoff/discharge to the designated ACEC._____

RARE SPECIES:
Does the project site include Estimated and/or Priority Habitat of State-Listed Rare Species? (see http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/priority_habitat/priority_habitat_home.htm)
☐Yes (Specify_____) ☒No

HISTORICAL /ARCHAEOLOGICAL RESOURCES:
Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?
☐Yes (Specify_____) ☒No
If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources? ☐Yes (Specify_____) ☐No

WATER RESOURCES:

Is there an Outstanding Resource Water (ORW) on or within a half-mile radius of the project site? _**X**_Yes___No; if yes, identify the ORW and its location: **The Rumney Marshes ACEC is located to the north of the proposed work area.**

(NOTE: Outstanding Resource Waters include Class A public water supplies, their tributaries, and bordering wetlands; active and inactive reservoirs approved by MassDEP; certain waters within Areas of Critical Environmental Concern, and certified vernal pools. Outstanding resource waters are listed in the Surface Water Quality Standards, 314 CMR 4.00.)

Are there any impaired water bodies on or within a half-mile radius of the project site? _**X**_ Yes ___No; if yes, identify the water body and pollutant(s) causing the impairment:
Water body: Winthrop Bay Watershed
Pollutants: PCBs in fish tissue, Enterococcus, Fecal Coliform, additional unknown sources

Is the project within a medium or high stress basin, as established by the Massachusetts Water Resources Commission? ___Yes _**X**_ No

STORMWATER MANAGEMENT:

Generally describe the project's stormwater impacts and measures that the project will take to comply with the standards found in MassDEP's Stormwater Management Regulations:

There will be no increase to impervious area from the existing conditions on the site. During construction, the Project will implement several measures to comply with the standards outlined in MassDEP's Stormwater Management Regulations. Please refer to Section 2.4 of the Project Narrative (Attachment A).

MASSACHUSETTS CONTINGENCY PLAN:

Has the project site been, or is it currently being, regulated under M.G.L.c.21E or the Massachusetts Contingency Plan? Yes _**X**_ No __ ; if yes, please describe the current status of the site (including Release Tracking Number (RTN), cleanup phase, and Response Action Outcome classification): **RTN 3-28293**

Is there an Activity and Use Limitation (AUL) on any portion of the project site? Yes _**X**_ No ___; if yes, describe which portion of the site and how the project will be consistent with the AUL: **Please refer to the Project Narrative in Attachment A.**

Are you aware of any Reportable Conditions at the property that have not yet been assigned an RTN? Yes ___ No _**X**_; if yes, please describe:_____

SOLID AND HAZARDOUS WASTE:

If the project will generate solid waste during demolition or construction, describe alternatives considered for re-use, recycling, and disposal of, e.g., asphalt, brick, concrete, gypsum, metal, wood:

The Proponent will take an active role in the reprocessing and recycling of construction waste. The contract for disposal will include specific requirements that will ensure that construction procedures allow for the necessary segregation, reprocessing, reuse, and recycling of materials when possible. For those materials that cannot be recycled, solid waste will be transported in covered trucks to an approved solid waste facility, per DEP regulations 310 CMR 16.00.

(NOTE: Asphalt pavement, brick, concrete and metal are banned from disposal at Massachusetts landfills and waste combustion facilities and wood is banned from disposal at Massachusetts landfills. See 310 CMR 19.017 for the complete list of banned materials.)

Will your project disturb asbestos containing materials? Yes ___ No _**X**_;
if yes, please consult state asbestos requirements at http://mass.gov/MassDEP/air/asbhom01.htm

Describe anti-idling and other measures to limit emissions from construction equipment:

All construction equipment will be maintained in compliance with all applicable state and federal emission regulations. Equipment will not be idled without an operator in the cab. No refueling of construction equipment shall be permitted in the immediate vicinity of any coastal resource areas. Equipment will be used in accordance with 310 CMR 7.11 and there shall be no unnecessary operation of motor vehicles while said vehicle is stopped for a foreseeable period of time in excess of 5 minutes.

DESIGNATED WILD AND SCENIC RIVER:

Is this project site located wholly or partially within a defined river corridor of a federally designated Wild and Scenic River or a state designated Scenic River? Yes ___ No _**X**_; if yes, specify name of river and designation:

If yes, does the project have the potential to impact any of the "outstandingly remarkable" resources of a federally Wild and Scenic River or the stated purpose of a state designated Scenic River? Yes ___ No ___ ; if yes, specify name of river and designation: _____; if yes, will the project will result in any impacts to any of the designated "outstandingly remarkable" resources of the Wild and Scenic River or the stated purposes of a Scenic River. Yes ___ No ___ ; if yes,describe the potential impacts to one or more of the "outstandingly remarkable" resources or stated purposes and mitigation measures proposed.

ATTACHMENTS:

1. List of all attachments to this document.
   Attachment A – Project Narrative
   Attachment B – USGS Quadrangle Map
   Attachment C – Site Photographs
   Attachment D – FEMA (FIRMette) Map
   Attachment E – ACEC & NHESP Priority & Estimated Habitats Map
   Attachment F – Alternatives Analysis Site Plans
   Attachment G – RMAT Climate Resilience Design Standards
   Attachment H – Environmental Justice Supporting Documentation
   Attachment I – List of Municipal and Federal Permits and Reviews
   Attachment J – Circulation List
   Attachment K – Preliminary Design and Restoration Plan
2. U.S.G.S. map (good quality color copy, 8-½ x 11 inches or larger, at a scale of 1:24,000) indicating the project location and boundaries. **Attachment B**
3.. Plan, at an appropriate scale, of existing conditions on the project site and its immediate environs, showing all known structures, roadways and parking lots, railroad rights-of-way, wetlands and water bodies, wooded areas, farmland, steep slopes, public open spaces, and major utilities. **Attachment K**
4 Plan, at an appropriate scale, depicting environmental constraints on or adjacent to the project site such as Priority and/or Estimated Habitat of state-listed rare species, Areas of Critical Environmental Concern, Chapter 91 jurisdictional areas, Article 97 lands, wetland resource area delineations, water supply protection areas, and historic resources and/or districts. **Attachments E, K**
5. Plan, at an appropriate scale, of proposed conditions upon completion of project (if construction of the project is proposed to be phased, there should be a site plan showing conditions upon the completion of each phase). **Attachment K**
6. List of all agencies and persons to whom the proponent circulated the ENF, in accordance with 301 CMR 11.16(2). **Attachment J**
7. List of municipal and federal permits and reviews required by the project, as applicable.
8. Printout of output report from RMAT Climate Resilience Design Standards Tool, available here. **Attachment I**
9. Printout from the EEA EJ Maps Viewer showing the project location relative to Environmental Justice (EJ) Populations located in whole or in part within a 1-mile and 5-mile radius of the project site. **Attachment H**

LAND SECTION – all proponents must fill out this section

I. Thresholds / Permits

A. Does the project meet or exceed any review thresholds related to **land** (see 301 CMR 11.03(1)
___ Yes _**X**_ No; if yes, specify each threshold:

II. Impacts and Permits

A. Describe, in acres, the current and proposed character of the project site, as follows:

	Existing	Change	Total
Footprint of buildings	**0**	**0**	**0**
Internal roadways	**0**	**0**	**0**
Parking and other paved areas	**0**	**0**	**0**
Other altered areas	**0**	**0**	**0**
Undeveloped areas	**1.48**	**0**	**1.48**
Total: Project Site Acreage	**1.48**	**0**	**1.48**

B. Has any part of the project site been in active agricultural use in the last five years?
___ Yes _**X**_ No; if yes, how many acres of land in agricultural use (with prime state or locally important agricultural soils) will be converted to nonagricultural use?

C. Is any part of the project site currently or proposed to be in active forestry use?
___ Yes _**X**_ No; if yes, please describe current and proposed forestry activities and indicate whether any part of the site is the subject of a forest management plan approved by the Department of Conservation and Recreation:

D. Does any part of the project involve conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97? ___ Yes _**X**_ No; if yes, describe:

E. Is any part of the project site currently subject to a conservation restriction, preservation restriction, agricultural preservation restriction or watershed preservation restriction? ___ Yes _**X**_ No; if yes, does the project involve the release or modification of such restriction? ___ Yes ___ No; if yes, describe:

F. Does the project require approval of a new urban redevelopment project or a fundamental change in an existing urban redevelopment project under M.G.L.c.121A? ___ Yes _**X**_ No; if yes, describe:

G. Does the project require approval of a new urban renewal plan or a major modification of an existing urban renewal plan under M.G.L.c.121B? Yes ___ No _**X**_; if yes, describe:

III. Consistency

A. Identify the current municipal comprehensive land use plan
Title: **Imagine Boston 2030** Date: **July 2017**

B. Describe the project's consistency with that plan with regard to:

1) economic development
The proposed Project will protect waterside infrastructure from potential storm damage by enhancing the coastal resilience of the coastline. The proposed improvements will also reduce maintenance costs and frequency

2) adequacy of infrastructure
The Project will improve shoreline stabilization on the site and will improve protection of the adjacent infrastructure, including Saratoga Street.

3) open space impacts
The Project will not negatively impact any open space areas.

4) compatibility with adjacent land uses
The Project will protect against erosion, safeguard adjacent infrastructure, and create a coastal beach resource area. By implementing these measures, the project will contribute to sustainable environmental management and enhance the overall resilience of the site and surrounding area. The creation of new coastal resource areas, both within the footprint of the former pier and landward of it, will further support these goals.

C. Identify the current Regional Policy Plan of the applicable Regional Planning Agency (RPA)
RPA: **Metropolitan Area Planning Council (MAPC)**

Title: **MetroCommon 2050** Date: **September 2021**

D. Describe the project's consistency with that plan with regard to:
1) economic development
The proposed Project will protect waterside infrastructure from potential storm damage by enhancing the coastal resilience of the coastline. The proposed improvements will also reduce maintenance costs and frequency.

2) adequacy of infrastructure
The Project will improve shoreline stabilization on the site and will improve protection of the adjacent infrastructure, including Saratoga Street.

3) open space impacts
The Project will not negatively impact any open space areas.

RARE SPECIES SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **rare species or habitat** (see 301 CMR 11.03(2))? ___ Yes _**X**_ No; if yes, specify, in quantitative terms:

(NOTE: If you are uncertain, it is recommended that you consult with the Natural Heritage and Endangered Species Program (NHESP) prior to submitting the ENF.)

B. Does the project require any state permits related to **rare species or habitat**? ___ Yes _**X**_ No

C. Does the project site fall within mapped rare species habitat (Priority or Estimated Habitat?) in the current Massachusetts Natural Heritage Atlas (attach relevant page)? ___ Yes _**X**_ No.

D. If you answered "No" to all questions A, B and C, proceed to the **Wetlands, Waterways, and Tidelands Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Rare Species section below.

II. Impacts and Permits

A. Does the project site fall within Priority or Estimated Habitat in the current Massachusetts Natural Heritage Atlas (attach relevant page)? ___ Yes ___ No. If yes,

1. Have you consulted with the Division of Fisheries and Wildlife Natural Heritage and Endangered Species Program (NHESP)? ___Yes ___No; if yes, have you received a determination as to whether the project will result in the "take" of a rare species? ___ Yes ___ No; if yes, attach the letter of determination to this submission.

2. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? ___ Yes ___ No; if yes, provide a summary of proposed measures to minimize and mitigate rare species impacts

3. Which rare species are known to occur within the Priority or Estimated Habitat?

4. Has the site been surveyed for rare species in accordance with the Massachusetts Endangered Species Act? ___ Yes ___ No

4. If your project is within Estimated Habitat, have you filed a Notice of Intent or received an Order of Conditions for this project? ___ Yes ___ No; if yes, did you send a copy of the Notice of Intent to the Natural Heritage and Endangered Species Program, in accordance with the Wetlands Protection Act regulations? ___ Yes ___ No

B. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? ___ Yes ___ No; if yes, provide a summary of proposed measures to minimize and mitigate impacts to significant habitat:

WETLANDS, WATERWAYS, AND TIDELANDS SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **wetlands, waterways, and tidelands** (see 301 CMR 11.03(3))? **_X_** Yes ___ No; if yes, specify, in quantitative terms:

310 CMR 11.03(3)(b)1.a.] – Alteration of coastal dune, barrier beach, or coastal bank;
[310 CMR 11.03(3)(b)1.f.] – Alteration of ½ or more acres of any other wetlands;
[310 CMR 11.03(b)(6)] – Construction, reconstruction or Expansion of an existing solid fill structure of 1,000 or more square feet

B. Does the project require any state permits (or a local Order of Conditions) related to **wetlands, waterways, or tidelands**? **_X_** Yes ___ No; if yes, specify which permit:

- **Order of Conditions in accordance with the MA Wetlands Protection Act (MA WPA) - City of Boston Conservation Commission;**
- **Section 401 Water Quality Certification – MassDEP;**
- **U.S. Army Corps of Engineers (USACE) Massachusetts General Permit**
- **MA Coastal Zone Management Federal Consistency Review (general concurrence during USACE review)**

C. If you answered "No" to both questions A and B, proceed to the **Water Supply Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Wetlands, Waterways, and Tidelands Section below.

II. Wetlands Impacts and Permits

A. Does the project require a new or amended Order of Conditions under the Wetlands Protection Act (M.G.L. c.131A)? **_X_** Yes ___ No; if yes, has a Notice of Intent been filed? ___ Yes **_X_** No; if yes, list the date and MassDEP file number: _____; if yes, has a local Order of Conditions been issued? ___ Yes ___ No; Was the Order of Conditions appealed? ___ Yes ___ No. Will the project require a Variance from the Wetlands regulations? ___ Yes **_X_** No.

B. Describe any proposed permanent or temporary impacts to wetland resource areas located on the project site: **Please refer to the discussion in Section 2.0 in the attached Project Narrative (Attachment A). In accordance with the WPA regulations, a Notice of Intent (NOI) will be filed with the Boston Conservation Commission. The Project team has been engaged in ongoing coordination with the Commission, and it is anticipated that an Order of Conditions (OOC) approving the Project will be issued.**

C. Estimate the extent and type of impact that the project will have on wetland resources, and indicate whether the impacts are temporary or permanent:

	Area (square feet) or length (linear feet)	Temporary or Permanen Impact?
Coastal Wetlands		
Land Under the Ocean		
Designated Port Areas		
Coastal Beaches	**-21,890 sf***	**permanent**
Coastal Dunes		
Barrier Beaches		
Coastal Banks	**320 lf**	**permanent**
Rocky Intertidal Shores		
Salt Marshes		
Land Under Salt Ponds		
Land Containing Shellfish	**1,600 sf**	**temporary**
Fish Runs		

Land Subject to Coastal Storm Flowage	**22,330 sf**	**permanent**
Inland Wetlands		
Bank (lf)		
Bordering Vegetated Wetlands		
Isolated Vegetated Wetlands		
Land under Water		
Isolated Land Subject to Flooding		
Bordering Land Subject to Flooding		
Riverfront Area		

Negative values demonstrate area of coastal resource area restoration

D. Is any part of the project:
1. proposed as a **limited project**? ___ Yes _**X**_ No; if yes, what is the area (in sf)?____
2. the construction or alteration of a **dam**? ___ Yes _**X**_ No; if yes, describe:
3. fill or structure in a **velocity zone** or **regulatory floodway**? ___ Yes _**X**_ No
4. dredging or disposal of dredged material? _**X**_ Yes ___ No; if yes, describe the volume of dredged material and the proposed disposal site**: 6,500 cy; disposal site TBD**
5. a discharge to an **Outstanding Resource Water (ORW)** or an **Area of Critical Environmental Concern (ACEC)**? ___ Yes _**X**_ No
6. subject to a wetlands restriction order? ___ Yes _**X**_ No; if yes, identify the area in sf
7. located in buffer zones? _**X**_ Yes ___No; if yes, how much (in sf)

E. Will the project:
1. be subject to a local wetlands ordinance or bylaw? ___ Yes _**X**_ No
2. alter any federally-protected wetlands not regulated under state law? ___ Yes _**X**_ No; if yes, what is the area (sf)?

III. Waterways and Tidelands Impacts and Permits

A. Does the project site contain waterways or tidelands (including filled former tidelands) that are subject to the Waterways Act, M.G.L.c.91? _ _ Yes _**X**_ No; if yes, is there a current Chapter 91 License or Permit affecting the project site? ___Yes ___No; if yes, list the date and license or permit number and provide a copy of the historic map used to determine extent of filled tidelands:

B. Does the project require a new or modified license or permit under M.G.L.c.91? ___Yes ___ No; if yes, how many acres of the project site subject to M.G.L.c.91 will be for non-water-dependent use? Current __ Change __ Total __ If yes, how many square feet of solid fill or pile-supported structures (in sf)?

C. For non-water-dependent use projects, indicate the following:

Area of filled tidelands on the site:_____
Area of filled tidelands covered by buildings:_____
For portions of site on filled tidelands, list ground floor uses and area of each use:
_____
Does the project include new non-water-dependent uses located over flowed tidelands? Yes ___ No ___
Height of building on filled tidelands_____

Also show the following on a site plan: Mean High Water, Mean Low Water, Water-dependent Use Zone, location of uses within buildings on tidelands, and interior and exterior areas and facilities dedicated for public use, and historic high and historic low water marks.

D. Is the project located on landlocked tidelands? ___ Yes ___No; if yes, describe the project's impact on the public's right to access, use and enjoy jurisdictional tidelands and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:

E. Is the project located in an area where low groundwater levels have been identified by a municipality or by a state or federal agency as a threat to building foundations? ___Yes **_X_** No; if yes, describe the project's impact on groundwater levels and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:

F. Is the project non-water-dependent **and** located on landlocked tidelands **or** waterways or tidelands subject to the Waterways Act **and** subject to a mandatory EIR?_Yes **_X_**No; *(NOTE: If yes, then the project will be subject to Public Benefit Review and Determination.)*

G. Does the project include dredging? **_X_** Yes __No; if yes, answer the following questions:
What type of dredging? Improvement **_X_** Maintenance ___ Both ____
What is the proposed dredge volume, in cubic yards (cys) __**6,500 cy**____
What is the proposed dredge footprint **_±185_** length (ft) **_±132_** width (ft)____depth (ft);
Dredge footprint varies from +11 NAVD88 to -5 NAVD88
Will dredging impact the following resource areas?
Intertidal Yes **_X_** No___; if yes, ___ sq ft
Outstanding Resource Waters Yes__ No**_X_** ; if yes, ___ sq ft
Other resource area (i.e. shellfish beds, eel grass beds) Yes**_X_** No__; if yes
If yes to any of the above, have you evaluated appropriate and practicable steps to: 1) avoidance; 2) if avoidance is not possible, minimization; 3) if either avoidance or minimize is not possible, mitigation?
If no to any of the above, what information or documentation was used to support this determination?
Provide a comprehensive analysis of practicable alternatives for improvement dredging in accordance with 314 CMR 9.07(1)(b). Physical and chemical data of the sediment shall be included in the comprehensive analysis.
Sediment Characterization
Existing gradation analysis results? **_X_** Yes __No: if yes, provide results.
Existing chemical results for parameters listed in 314 CMR 9.07(2)(b)6? **_X_** Yes __No; if yes, provide results.
Do you have sufficient information to evaluate feasibility of the following management options for dredged sediment? If yes, check the appropriate option.

Beach Nourishment ___
Unconfined Ocean Disposal ___
Confined Disposal:
Confined Aquatic Disposal (CAD) ___
Confined Disposal Facility (CDF) ___
Landfill Reuse in accordance with COMM-97-001 ___
Shoreline Placement ___
Upland Material Reuse__
In-State landfill disposal____
Out-of-state landfill disposal ____
(NOTE: This information is required for a 401 Water Quality Certification.)

IV. Consistency:

A. Does the project have effects on the coastal resources or uses, and/or is the project located within the Coastal Zone? **_X_** Yes ___ No; if yes, describe these effects and the projects consistency with the policies of the Office of Coastal Zone Management:

Please see below for responses regarding the Project's consistency with applicable CZM policies. The Proponent has had ongoing discussions with CZM during the design process and will continue to coordinate with them for feedback throughout the review and permitting process.

Coastal Hazard Policies 1 and 2:

The proposed Project has been designed to minimize impacts on coastal resource areas while creating additional resource area and enhancing the site's sustainability. By implementing a soft solution with the failsafe of a hard solution/revetment, along with the proposed BMPs detailed in the Project Narrative (Attachment A), the Project aims to achieve these goals effectively.

Please refer to the Project Narrative for a summary of the mitigation measures intended to be implemented during the Project. The Project is anticipated to have no interference with water circulation and sediment transport, ensuring the natural processes remain undisturbed. The site changes are expected to significantly improve and enhance the site's overall sustainability and resilience. There are no anticipated adverse effects on adjacent or downcoast areas.

Growth Management Policy 1:

The Project encourages sustainable development consistent with local, state and regional plans as it takes into consideration sea level rise and involves the removal of the existing deteriorating structures and creation of additional coastal resource area. This will provide better protection for the site and adjacent infrastructure.

Habitat Policies 1 and 2:

The Project has been designed to minimize impacts to the site and surrounding resource areas and will ensure that impacts beyond the project footprint are minimized. The Project will also assist in protecting the resource areas and existing infrastructure surrounding the site. The existing embankment consists of the deteriorating timber pier and bulkhead which are at risk of further eroding the shoreline. If the bank were to erode to a degree that the adjacent infrastructure, including Saratoga Street, is impacted, it would expose the area during coastal storms and/or flooding events. The development of the proposed revetment and coastal resource area will improve the shoreline's ability to retain sediment and will reduce erosion currently occurring in the exposed areas. The Project will stabilize the slope and protect the adjacent upland site from further negative impacts.

B. Is the project located within an area subject to a Municipal Harbor Plan? ___ Yes _**X**_No; if yes, identify the Municipal Harbor Plan and describe the project's consistency with that plan:

WATER SUPPLY SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **water supply** (see 301 CMR 11.03(4))? ___ Yes _**X**_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **water supply**? ___ Yes _**X**_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Wastewater Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Water Supply Section below.

II. Impacts and Permits

A. Describe, in gallons per day (gpd), the volume and source of water use for existing and proposed activities at the project site:

	Existing	Change	Total
Municipal or regional water supply	_____	_____	_____
Withdrawal from groundwater	_____	_____	_____
Withdrawal from surface water	_____	_____	_____
Interbasin transfer	_____	_____	_____

(NOTE: Interbasin Transfer approval will be required if the basin and community where the proposed water supply source is located is different from the basin and community where the wastewater from the source will be discharged.)

B. If the source is a municipal or regional supply, has the municipality or region indicated that there is adequate capacity in the system to accommodate the project? ___ Yes ___ No

C. If the project involves a new or expanded withdrawal from a groundwater or surface water source, has a pumping test been conducted? ___ Yes ___ No; if yes, attach a map of the drilling sites and a summary of the alternatives considered and the results. _____

D. What is the currently permitted withdrawal at the proposed water supply source (in gallons per day)? _____Will the project require an increase in that withdrawal? ___Yes ___No; if yes, then how much of an increase (gpd)? _____

E. Does the project site currently contain a water supply well, a drinking water treatment facility, water main, or other water supply facility, or will the project involve construction of a new facility? ___ Yes ___No. If yes, describe existing and proposed water supply facilities at the project site:

	Permitted Flow	Existing Avg Daily Flow	Project Flow	Total
Capacity of water supply well(s) (gpd)	_____	_____	_____	_____
Capacity of water treatment plant (gpd)	_____	_____	_____	_____

F. If the project involves a new interbasin transfer of water, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or proposed?

G. Does the project involve:

1. new water service by the Massachusetts Water Resources Authority or other agency of the Commonwealth to a municipality or water district? ___ Yes ___ No
2. a Watershed Protection Act variance? ___ Yes ___ No; if yes, how many acres of alteration?
3. a non-bridged stream crossing 1,000 or less feet upstream of a public surface drinking water supply for purpose of forest harvesting activities? ___ Yes ___ No

III. Consistency

Describe the project's consistency with water conservation plans or other plans to enhance water resources, quality, facilities and services:

WASTEWATER SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **wastewater** (see 301 CMR 11.03(5))? ___ Yes _**X**_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **wastewater**? ___ Yes _**X**_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Transportation -- Traffic Generation Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Wastewater Section below.

II. Impacts and Permits

A. Describe the volume (in gallons per day) and type of disposal of wastewater generation for existing and proposed activities at the project site (calculate according to 310 CMR 15.00 for septic systems or 314 CMR 7.00 for sewer systems):

	Existing	Change	Total
Discharge of sanitary wastewater	_____	_____	_____
Discharge of industrial wastewater	_____	_____	_____
TOTAL	_____	_____	_____

	Existing	Change	Total
Discharge to groundwater	_____	_____	_____
Discharge to outstanding resource water	_____	_____	_____
Discharge to surface water	_____	_____	_____
Discharge to municipal or regional wastewater facility	_____	_____	_____
TOTAL	_____	_____	_____

B. Is the existing collection system at or near its capacity? ___ Yes ___ No; if yes, then describe the measures to be undertaken to accommodate the project's wastewater flows:

C. Is the existing wastewater disposal facility at or near its permitted capacity? ___ Yes___ No; if yes, then describe the measures to be undertaken to accommodate the project's wastewater flows:

D. Does the project site currently contain a wastewater treatment facility, sewer main, or other wastewater disposal facility, or will the project involve construction of a new facility? ___ Yes ___ No; if yes, describe as follows:

	Permitted	Existing Avg Daily Flow	Project Flow	Total
Wastewater treatment plant capacity (in gallons per day)	_____	_____	_____	_____

E. If the project requires an interbasin transfer of wastewater, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or new?

(NOTE: Interbasin Transfer approval may be needed if the basin and community where wastewater will be discharged is different from the basin and community where the source of water supply is

located.)

F. Does the project involve new sewer service by the Massachusetts Water Resources Authority (MWRA) or other Agency of the Commonwealth to a municipality or sewer district? ___ Yes ___ No

G. Is there an existing facility, or is a new facility proposed at the project site for the storage, treatment, processing, combustion or disposal of sewage sludge, sludge ash, grit, screenings, wastewater reuse (gray water) or other sewage residual materials? ___ Yes ___ No; if yes, what is the capacity (tons per day):

	Existing	Change	Total
Storage	_____	_____	_____
Treatment	_____	_____	_____
Processing	_____	_____	_____
Combustion	_____	_____	_____
Disposal	_____	_____	_____

H. Describe the water conservation measures to be undertaken by the project, and other wastewater mitigation, such as infiltration and inflow removal.

III. Consistency

A. Describe measures that the proponent will take to comply with applicable state, regional, and local plans and policies related to wastewater management:

B. If the project requires a sewer extension permit, is that extension included in a comprehensive wastewater management plan? ___ Yes ___ No; if yes, indicate the EEA number for the plan and whether the project site is within a sewer service area recommended or approved in that plan:

TRANSPORTATION SECTION (TRAFFIC GENERATION)

I. Thresholds / Permit

A. Will the project meet or exceed any review thresholds related to **traffic generation** (see 301 CMR 11.03(6))? ___ Yes _**X**_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **state-controlled roadways**? ___ Yes _**X**_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Roadways and Other Transportation Facilities Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Traffic Generation Section below.

II. Traffic Impacts and Permits

A. Describe existing and proposed vehicular traffic generated by activities at the project site:

	Existing	Change	Total
Number of parking spaces	_____	_____	_____
Number of vehicle trips per day	_____	_____	_____
ITE Land Use Code(s):	_____	_____	_____

B. What is the estimated average daily traffic on roadways serving the site?

Roadway	Existing	Change	Total
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____

C. If applicable, describe proposed mitigation measures on state-controlled roadways that the project proponent will implement:

D. How will the project implement and/or promote the use of transit, pedestrian and bicycle facilities and services to provide access to and from the project site?

C. Is there a Transportation Management Association (TMA) that provides transportation demand management (TDM) services in the area of the project site? ____ Yes ____ No; if yes, describe if and how will the project will participate in the TMA:

D. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation facilities? ____ Yes ____ No; if yes, generally describe:

E. If the project will penetrate approach airspace of a nearby airport, has the proponent filed a Massachusetts Aeronautics Commission Airspace Review Form (780 CMR 111.7) and a Notice of Proposed Construction or Alteration with the Federal Aviation Administration (FAA) (CFR Title 14 Part 77.13, forms 7460-1 and 7460-2)?

III. Consistency

Describe measures that the proponent will take to comply with municipal, regional, state, and federal plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services:

TRANSPORTATION SECTION (ROADWAYS AND OTHER TRANSPORTATION FACILITIES)

I. Thresholds

A. Will the project meet or exceed any review thresholds related to **roadways or other transportation facilities** (see 301 CMR 11.03(6))? ___ Yes _**X**_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **roadways or other transportation facilities**? ___ Yes _**X**_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Energy Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Roadways Section below.

II. Transportation Facility Impacts

A. Describe existing and proposed transportation facilities in the immediate vicinity of the project site:

B. Will the project involve any

1. Alteration of bank or terrain (in linear feet)? _____
2. Cutting of living public shade trees (number)? _____
3. Elimination of stone wall (in linear feet)? _____

III. Consistency -- Describe the project's consistency with other federal, state, regional, and local plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services, including consistency with the applicable regional transportation plan and the Transportation Improvements Plan (TIP), the State Bicycle Plan, and the State Pedestrian Plan:

ENERGY SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **energy** (see 301 CMR 11.03(7))? ___ Yes _**X**_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **energy**? ___ Yes _**X**_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Air Quality Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Energy Section below.

II. Impacts and Permits

A. Describe existing and proposed energy generation and transmission facilities at the project site:

	Existing	Change	Total
Capacity of electric generating facility (megawatts)	_____	_____	_____
Length of fuel line (in miles)	_____	_____	_____
Length of transmission lines (in miles)	_____	_____	_____
Capacity of transmission lines (in kilovolts)	_____	_____	_____

B. If the project involves construction or expansion of an electric generating facility, what are:

1. the facility's current and proposed fuel source(s)?
2. the facility's current and proposed cooling source(s)?

C. If the project involves construction of an electrical transmission line, will it be located on a new, unused, or abandoned right of way? ___Yes ___No; if yes, please describe:

D. Describe the project's other impacts on energy facilities and services:

III. Consistency

Describe the project's consistency with state, municipal, regional, and federal plans and policies for enhancing energy facilities and services:

AIR QUALITY SECTION

I. Thresholds

A. Will the project meet or exceed any review thresholds related to **air quality** (see 301 CMR 11.03(8))? ___ Yes _**X**_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **air quality**? ___ Yes _**X**_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Solid and Hazardous Waste Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Air Quality Section below.

II. Impacts and Permits

A. Does the project involve construction or modification of a major stationary source (see 310 CMR 7.00, Appendix A)? ___ Yes ___ No; if yes, describe existing and proposed emissions (in tons per day) of:

	Existing	Change	Total
Particulate matter	_____	_____	_____
Carbon monoxide	_____	_____	_____
Sulfur dioxide	_____	_____	_____
Volatile organic compounds	_____	_____	_____
Oxides of nitrogen	_____	_____	_____
Lead	_____	_____	_____
Any hazardous air pollutant	_____	_____	_____
Carbon dioxide	_____	_____	_____

B. Describe the project's other impacts on air resources and air quality, including noise impacts:

III. Consistency

A. Describe the project's consistency with the State Implementation Plan:

B. Describe measures that the proponent will take to comply with other federal, state, regional, and local plans and policies related to air resources and air quality:

SOLID AND HAZARDOUS WASTE SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **solid or hazardous waste** (see 301 CMR 11.03(9))? ___ Yes _**X**_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **solid and hazardous waste**? ___ Yes _**X**_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Historical and Archaeological Resources Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Solid and Hazardous Waste Section below.

II. Impacts and Permits

A. Is there any current or proposed facility at the project site for the storage, treatment, processing, combustion or disposal of solid waste? ___ Yes ___ No; if yes, what is the volume (in tons per day) of the capacity:

	Existing	Change	Total
Storage	_____	_____	_____
Treatment, processing	_____	_____	_____
Combustion	_____	_____	_____
Disposal	_____	_____	_____

B. Is there any current or proposed facility at the project site for the storage, recycling, treatment or disposal of hazardous waste? ___ Yes ___ No; if yes, what is the volume (in tons or gallons per day) of the capacity:

	Existing	Change	Total
Storage	_____	_____	_____
Recycling	_____	_____	_____
Treatment	_____	_____	_____
Disposal	_____	_____	_____

C. If the project will generate solid waste (for example, during demolition or construction), describe alternatives considered for re-use, recycling, and disposal:

D. If the project involves demolition, do any buildings to be demolished contain asbestos?
___ Yes ___ No

E. Describe the project's other solid and hazardous waste impacts (including indirect impacts):

III. Consistency

Describe measures that the proponent will take to comply with the State Solid Waste Master Plan:

HISTORICAL AND ARCHAEOLOGICAL RESOURCES SECTION

I. Thresholds / Impacts

A. Have you consulted with the Massachusetts Historical Commission? ___ Yes _**X**_ No; if yes, attach correspondence. For project sites involving lands under water, have you consulted with the Massachusetts Board of Underwater Archaeological Resources? ____Yes _**X**_ No; if yes, attach correspondence.

B. Is any part of the project site a historic structure, or a structure within a historic district, in either case listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? ___ Yes _**X**_ No; if yes, does the project involve the demolition of all or any exterior part of such historic structure? ___ Yes _**X**_ No; if yes, please describe:

C. Is any part of the project site an archaeological site listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? ___ Yes _**X**_No; if yes, does the project involve the destruction of all or any part of such archaeological site? ___ Yes _**X**_No; if yes, please describe:

D. If you answered "No" to all parts of both questions A, B and C, proceed to the **Attachments and Certifications** Sections. If you answered "Yes" to any part of either question A or question B, fill out the remainder of the Historical and Archaeological Resources Section below.

II. Impacts

Describe and assess the project's impacts, direct and indirect, on listed or inventoried historical and archaeological resources:

III. Consistency

Describe measures that the proponent will take to comply with federal, state, regional, and local plans and policies related to preserving historical and archaeological resources:

CLIMATE CHANGE ADAPTATION AND RESILIENCY SECTION

This section of the Environmental Notification Form (ENF) solicits information and disclosures related to climate change adaptation and resiliency, in accordance with the MEPA Interim Protocol on Climate Change Adaptation and Resiliency (the "MEPA Interim Protocol"), effective October 1, 2021. The Interim Protocol builds on the analysis and recommendations of the 2018 Massachusetts Integrated State Hazard Mitigation and Climate Adaptation Plan (SHMCAP), and incorporates the efforts of the Resilient Massachusetts Action Team (RMAT), the inter-agency steering committee responsible for implementation, monitoring, and maintenance of the SHMCAP, including the "Climate Resilience Design Standards and Guidelines" project. The RMAT team recently released the RMAT Climate Resilience Design Standards Tool, which is available here.

The MEPA Interim Protocol is intended to gather project-level data in a standardized manner that will both inform the MEPA review process and assist the RMAT team in evaluating the accuracy and effectiveness of the RMAT Climate Resilience Design Standards Tool. Once this testing process is completed, the MEPA Office anticipates developing a formal Climate Change Adaptation and Resiliency Policy through a public stakeholder process. Questions about the RMAT Climate Resilience Design Standards Tool can be directed to rmat@mass.gov.

All Proponents must complete the following section, referencing as appropriate the results of the output report generated by the RMAT Climate Resilience Design Standards Tool and attached to the ENF. In completing this section, Proponents are encouraged, but not required at this time, to utilize the recommended design standards and associated Tier 1/2/3 methodologies outlined in the RMAT Climate Resilience Design Standards Tool to analyze the project design. However, Proponents are requested to respond to a respond to a user feedback survey on the RMAT website or to provide feedback to rmat@mass.gov, which will be used by the RMAT team to further refine the tool. Proponents are also encouraged to consult general guidance and best practices as described in the RMAT Climate Resilience Design Guidelines.

Climate Change Adaptation and Resiliency Strategies

I. Has the project taken measures to adapt to climate change for all of the climate parameters analyzed in the RMAT Climate Resilience Design Standards Tool (sea level rise/storm surge, extreme precipitation (urban or riverine flooding), extreme heat)? _**X**_ Yes __ No

Note: Climate adaptation and resiliency strategies include actions that seek to reduce vulnerability to anticipated climate risks and improve resiliency for future climate conditions. Examples of climate adaptation and resiliency strategies include flood barriers, increased stormwater infiltration, living shorelines, elevated infrastructure, increased tree canopy, etc. Projects should address any planning priorities identified by the affected municipality through the Municipal Vulnerability Preparedness (MVP) program or other planning efforts, and should consider a flexible adaptive pathways approach, an adaptation best practice that encourages design strategies that adapt over time to respond to changing climate conditions. General guidance and best practices for designing for climate risk are described in the RMAT Climate Resilience Design Guidelines.

A. If no, explain why.

B. If yes, describe the measures the project will take, including identifying the planning horizon and climate data used in designing project components. If applicable, specify the return period and design storm used (e.g., 100-year, 24-hour storm).

The proposed Project has been designed considering a 100-year storm event and 36 inches of sea level rise. The Project will enhance the overall resilience of the site and surrounding area.

C. Is the project contributing to regional adaptation strategies? _**X**_ Yes __ No; If yes, describe.

The proposed Project contributes to regional adaptation strategies presented in Climate Ready Boston and CRB East Boston 2022 by protecting coastal resources and the adjacent roadway from storm events and sea level rise.

II. Has the Proponent considered alternative locations for the project in light of climate change risks?
___ Yes _**X**_ No

A. If no, explain why.

The purpose of the Project is to protect the site against erosion, safeguard adjacent infrastructure, including Saratoga Street, and create resource area; therefore, no alternative locations can be considered for the proposed Project.

B. If yes, describe alternatives considered.

III. Is the project located in Land Subject to Coastal Storm Flowage (LSCSF) or Bordering Land Subject to Flooding (BLSF) as defined in the Wetlands Protection Act? _**X**_ Yes ____No

If yes, describe how/whether proposed changes to the site's topography (including the addition of fill) will result in changes to floodwater flow paths and/or velocities that could impact adjacent properties or the functioning of the floodplain. General guidance on providing this analysis can be found in the CZM/MassDEP Coastal Wetlands Manual, available here.

The Project will create additional coastal resource areas and protect existing ones, along with adjacent infrastructure. The Project will not change floodwater paths or velocities, nor will it negatively impact adjacent properties or floodplain functionality.

ENVIRONMENTAL JUSTICE SECTION

I. Identifying Characteristics of EJ Populations

A. If an Environmental Justice (EJ) population has been identified as located in whole or in part within 5 miles of the project site, describe the characteristics of each EJ populations as identified in the EJ Maps Viewer (i.e., the census block group identification number and EJ characteristics of "Minority," "Minority and Income," etc.). Provide a breakdown of those EJ populations within 1 mile of the project site, and those within 5 miles of the site.

Please refer to Attachment H.

B. Identify all languages identified in the "Languages Spoken in Massachusetts" tab of the EJ Maps Viewer as spoken by 5 percent or more of the EJ population who also identify as not speaking English "very well." The languages should be identified for each census tract located in whole or in part within 1 mile and 5 miles of the project site, regardless of whether such census tract contains any designated EJ populations.

1 mile: Spanish, Spanish Creole, Arabic
5 miles: Spanish, Spanish Creole, Arabic, Chinese, Vietnamese, French Creole, Portuguese, Portuguese Creole, Korean, MonKhmer/Cambodian, Other Indic Language

C. If the list of languages identified under Section I.B. has been modified with approval of the EEA EJ Director, provide a list of approved languages that the project will use to provide public involvement opportunities during the course of MEPA review. If the list has been expanded by the Proponent (without input from the EEA EJ Director), provide a list of the additional languages that will be used to provide public involvement opportunities during the course of MEPA review as required by Part II of the MEPA Public Involvement Protocol for Environmental Justice Populations ("MEPA EJ Public Involvement Protocol"). If the project is exempt from Part II of the protocol, please specify.

II. Potential Effects on EJ Populations

A. If an EJ population has been identified using the EJ Maps Viewer within 1 mile of the project site, describe the likely effects of the project (both adverse and beneficial) on the identified EJ population(s).

The Project will benefit the EJ populations within 1 mile of the site by providing additional protection of the existing shoreline and adjacent infrastructure. The proposed work is anticipated to increase the safety of the adjacent Saratoga Street for the EJ populations as well as protect the adjacent communities against severe storms and sea level rise.

B. If an EJ population has been identified using the EJ Maps Viewer within 5 miles of the project site, will the project: (i) meet or exceed MEPA review thresholds under 301 CMR 11.03(8)(a)-(b) __ Yes _**X**_ No; or (ii) generate150 or more new average daily trips (adt) of diesel vehicle traffic, excluding public transit trips, over a duration of 1 year or more. ___ Yes _**X**_ No

C. If you answered "Yes" to either question in Section II.B., describe the likely effects of the project (both adverse and beneficial) on the identified EJ population(s).

III. Public Involvement Activities

A. Provide a description of activities conducted prior to filing to promote public involvement by EJ populations, in accordance with Part II of the MEPA EJ Public Involvement Protocol. In particular:

1. If advance notification was provided under Part II.A., attach a copy of the Environmental Justice Screening Form and provide list of CBOs/tribes contacted (with dates). Copies of email correspondence can be attached in lieu of a separate list.

2. State how CBOs and tribes were informed of ways to request a community meeting, and if any meeting was requested. If public meetings were held, describe any issues of concern that were raised at such meetings, and any steps taken (including modifications to the project design) to address such concerns.

3. If the project is exempt from Part II of the protocol, please specify.

In addition to CBOs and Tribes, the EJ Screening Form was sent to contacts provided by Massport as necessary.

B. Provide below (or attach) a distribution list (if different from the list in Section III.A. above) of CBOs and tribes, or other individuals or entities the Proponent intends to maintain for the notice of the MEPA Site Visit and circulation of other materials and notices during the course of MEPA review.

C. Describe (or submit as a separate document) the Proponent's plan to maintain the same level of community engagement throughout the MEPA review process, as conducted prior to filing.

At any point throughout the MEPA review process, community members are encouraged to contact the Project's public outreach contact, Anthony Guerriero (Massport), via email at aguerriero@massport.com.

CERTIFICATIONS:

1. The Public Notice of Environmental Review has been/will be published in the following newspapers in accordance with 301 CMR 11.15(1):

   (Name) **The East Boston Times / The Winthrop Sun Transcript** (Date) **12/9/2025**

2. This form has been circulated to Agencies and Persons in accordance with 301 CMR 11.16(2).

Signatures:

12/01/25	Chris Busch Digitally signed by Chris Busch Date: 2025.12.01 10:13:50 -05'00'	12/01/25	
Date	Signature of Responsible Officer or Proponent	Date	Signature of person preparing ENF (if different from above) or Proponent

Chris Busch	**Fiona Vardy**
Name (print or type)	Name (print or type)
Massachusetts Port Authority (Massport)	**Foth Infrastructure & Environment, LLC (Foth)**
Firm/Agency	Firm/Agency
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Street	Street
Boston, MA 02128	**Newport, RI 02840**
Municipality/State/Zip	Municipality/State/Zip
(617) 568-3524	**(401) 910-7720**
Phone	Phone

Attachment A

Project Narrative

1. Project Overview

1.1 Introduction

On behalf of the Massachusetts Port Authority (Massport), Foth Infrastructure & Environment, LLC (Foth) is submitting an Expanded Environmental Notification Form (EENF) in accordance with the Massachusetts Environmental Policy Act (MEPA) (M.G.L. c. 30, ss. 61-62L) and its associated regulations (301 CMR 11.00). Massport is proposing to remove the deteriorated piles, timber pier, and bulkhead located at 1257 & 1263 Saratoga Street in Boston, Massachusetts (Parcel IDs 0104411002 & 0104412000, respectively), stabilize the shoreline with a revetment, and establish approximately 21,890 square feet (sf) of coastal resource area (the Project). The Project will focus on restoring the site and creating new coastal resource area both within the footprint of the former pier and landward of it. By implementing these measures, the Project will enhance coastal resource areas and improve the overall resilience of the site and surrounding area. This EENF and supporting narrative describes the Project and its alternatives, and assesses its potential environmental impacts and mitigation measures, as described in 301 CMR 11.05(5). Figure 1 below shows an aerial view of the Project site. Attachment C includes existing site conditions photographs.

Figure 1: Aerial View of the Project Site

1.2 Purpose and Need

The proposed work aims to significantly improve conditions on the site by addressing several key issues. The surrounding community has been advocating for the removal of the visibly deteriorating timber pier, which is no longer in use. This Project will remove the deteriorated pier structure, pilings, and bulkhead, stabilize the shoreline, and establish coastal habitat at the site. These efforts aim to improve the surrounding environment and provide mitigation for impacts related to the Boston Logan Airport Runway 27 End Runway Safety Area Improvements Project (Runway 27 RSA Project). The Runway 27 RSA Project is required to meet the Runway Safety Area (RSA) design criteria outlined in the Federal Aviation

Administration's (FAA's) Advisory Circular 150/5300-13B, *Airport Design*[1], and to improve rescue access during emergencies. Given Boston Logan Airport's location, surrounded on three sides by Boston Harbor, any RSA improvements require work in marine intertidal and subtidal areas. Massport collaborated closely with the FAA on the conceptual design to minimize impacts, but no feasible alternatives met both FAA safety requirements and avoided marine resource areas.

The Runway 27 RSA Project began the MEPA review process with an ENF filing in August 2021. On January 30, 2023, the Secretary issued a Certificate on the Final Environmental Impact Report (FEIR) for the project (EEA# 16433), confirming its compliance with MEPA regulations. During the review, Massport received detailed input on mitigating permanent impacts to Land Under Ocean and Coastal Beach (mudflat) resource areas related to the RSA improvements.

Massport selected the Project site due to its proximity to Logan International Airport, as directed by the Secretary's Certificate. The Project will ensure the replacement and restoration of intertidal wetlands affected by the installation of piles and egress ramps for the Runway 27 RSA Project. Additionally, a mitigation fee was provided to the Division of Marine Fisheries (DMF) to support off-site restoration efforts.

In addition to providing mitigation, the Project offers significant benefits by creating additional coastal resource area and protecting existing ones, along with adjacent public infrastructure. Designed to withstand 100-year storm events, the Project will provide long-term protection against severe storms, create and protect coastal resource areas, and contribute to sustainable environmental management and enhance resilience for the surrounding area.

1.3 Existing Conditions

The approximately 1.48-acre Project site (approximately 64,494 sf) has been owned by Massport since 2008, and is currently undeveloped land, which is fenced and secured due to its location beneath a runway approach to Boston Logan Airport. Due to aviation operations and state and federal security restrictions, there is no public access to the site. The site has been previously occupied by a lumber yard, boat yard, and contractor's yard. The site currently contains a deteriorated timber wharf structure fronting an approximately 175 feet (ft) of deteriorated timber bulkhead. The site is otherwise undeveloped. The community has expressed interest in having the timber pier removed due to its condition. Attachment C includes existing site conditions photographs.

Coastal resource areas defined by the Massachusetts Wetlands Protection Act (MA WPA) at the site include Land Under Ocean, Land Containing Shellfish (Shellfish Suitability Area), Land Subject to Coastal Storm Flowage, Coastal Beach, Coastal Bank, and Rocky Intertidal Shore. The Project site is located in Zone AE (El. +12 NAVD88) according to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Number 25025C0038J, effective March 16, 2016 (see Attachment D).

Review of the most up to date Natural Heritage & Endangered Species Program (NHESP) mapping viewer (August 1, 2021) indicated there are no Priority or Estimated Habitats of rare or endangered species located within the Project site. Based on the most current available information provided by the MA GIS database and confirmed by visual inspection, there is no eelgrass located within or in the vicinity of the Project site.

The approximately 40-ft northern edge of the site is retained by a granite stone seawall. The timber bulkhead is in critical condition with very advanced deterioration and breakage which has resulted in localized failure(s) of structural components. It appears that there has been backfilling of the bulkhead with crushed stone and filter fabric as well as minor repairs where steel plate was installed within the bulkhead structure. To support the design process, a geotechnical investigation was conducted in the spring of 2024 and supplemental soil analytical sampling was conducted in the fall of 2025 to assess the subsurface

[1] *U.S. Department of Transportation, Federal Aviation Administration, Advisory Circular 150/5300-13B, Airport Design, March 31, 2022.*

conditions of the site in the vicinity of the pier structure, pilings, and bulkhead. GEI Consultants (GEI), serving as the Licensed Site Professional (LSP), oversaw the geotechnical and soil analytical exploration program conducted in spring 2024 and fall of 2025.

A portion of the site has been assigned the MassDEP Release Tracking Number (RTN) 3-28293 due to elevated concentrations of volatile petroleum hydrocarbons (VPH), extractable petroleum hydrocarbons (EPH), and metals in soil on the upland portion of the site and elevated levels of EPH, polychlorinated biphenyls (PCBs), and metals in mudflat sediment. The upland portion of the site was closed with a Partial Class B-2 Response Action Outcome (RAO) Statement (Permanent Solution) in June 2014, while the mudflat portion remains open under a Partial Class C-1 RAO (Temporary Solution), which was submitted in December 2013.

In June 2014, GEI completed a Method 3 Risk Characterization in accordance with 310 CMR 40.0900 to assess the potential risks to health, safety, public welfare, and the environment from soil and groundwater contamination within a portion of the upland area of the site. GEI concluded that this portion of the site poses No Significant Risk (NSR) with the implementation of an Activity and Use Limitation (AUL). The AUL allows for commercial and industrial activities and uses of the upland portion of the site, as well as passive recreational activities. It restricts use of the site as a residence, school, or childcare center and prevents agricultural activity or the construction of a playground, playing fields, or other facilities that may be used for active recreational activities. The AUL requires preparation and implementation of a Soil Management Plan and a Health & Safety Plan prior to any construction activities, and LSP oversight. These protocols will be followed throughout the Project's development, and the work will be conducted as a Release Abatement Measure (RAM) under the Massachusetts Contingency Plan (MCP; 310 CMR 40.0440).

1.4 Proposed Improvements

The proposed work includes the removal of the existing timber pier, pilings, and bulkhead to one foot below the mudline, the restoration of Coastal Beach within the footprint of the existing pier, and coastal restoration landward of the pier. The coastal restoration will involve the excavation of existing material, the construction of a rip rap revetment at a 1.5H:1V slope, and the replacement of material over the portion of revetment below the Annual High Tide Line (AHTL). A portion of the excavated material may be placed landward of the proposed coastal restoration area, if soil concentrations are acceptable for reuse, while the remainder will be transported offsite for disposal. The proposed work will not increase the amount of impervious area at the Project site. One of the main goals of the Project is to ensure that a condition of No Significant Risk is maintained on the upland portion of the site consistent with the AUL.

In addition to the Coastal Beach restoration and shoreline stabilization, the Project will provide protection against a 100-year storm event. The Project will not adversely impact the existing salt marsh that is located south of the area of work. Best management practices (BMPs) will be used to minimize impacts to resource areas throughout the construction process.

1.4.1 Interagency Coordination and Comment

The Project team held an interagency meeting on May 6, 2025, which was attended by representatives from the MEPA Office, Massachusetts Office of Coastal Zone Management (CZM), Massachusetts Department of Environmental Protection (MassDEP), Division of Marine Fisheries (DMF), and the Boston Conservation Commission. During the meeting, representatives from CZM requested that the Proponent take another look at the proposed 1.5H:1V revetement slope to see if it could return to a 2H:1V slope to decrease wave reflection. A 1.5H:1V revetement slope is proposed in order to maximize the newly created wetland resource area. This approach also minimizes the resulting slope of that area, ensuring slope stability and creating a more ideal topography for native fauna to populate. While a slightly steeper slope does marginally increase wave reflection, the exposed portion of the revetement is isolated to that portion above the AHTL. It is anticipated that the majority of wave energy would be absorbed by the much shallower slope

of the created coastal beach seaward of the exposed revetement. CZM also requested that roadway impact and storm flowage be considered. A buffer between the proposed work area and Saratoga Street has been considered during the 30% design process. The Project team will engage with MassDOT during the final design process and confirm there are sufficient buffers from the Project and Saratoga Street.

1.5 Jurisdiction and Permitting

The Project is subject to MEPA review because it requires Agency Action and exceeds the ENF threshold of 11.03 (3)(b)1a alteration of a coastal dune, barrier beach or coastal bank; and 11.03(3)(b)1e new fill or structure or expansion of existing fill or structure, except a pile-supported structure, in a velocity zone or regulatory floodway. The Project requires the preparation of an EIR pursuant to 301 CMR 11.06(7)(b) because it is located within one mile of an Environmental Justice (EJ) population. The Project requires an Order of Conditions (OOC) from the City of Boston Conservation Commission as the Project is located in/near wetland resource areas and buffer zones. The Project requires a 401 Water Quality Certification from MassDEP. The proposed work will be covered under the U.S. Army Corps of Engineers (USACE) General Permit, which will require the filing of a Pre-Construction Notification (PCN) with the USACE. Coastal Zone Management (CZM) Federal Consistency Review will take place as a general concurrence during USACE interagency reviews.

Table 1 Anticipated Permitting

Agency	Permit/License/Approval	Reason of Required Permit
Massachusetts Environmental Policy Act Office	EENF and EIR	Proposed work meets MEPA requirements 11.03(3)(b)1a and 11.03(3)(b)1e
City of Boston Conservation Commission	Order of Conditions	Work is proposed within and near wetland resource areas
Massachusetts Department of Environmental Protection	Water Quality Certification	Turbidity creating activities through excavation, riprap placement, and regrading
United States Army Corps of Engineers	Pre-Construction Notification	Stabilization activities in Waters of the U.S. (WOTUS)
Massachusetts Coastal Zone Management	General Concurrence	Work is within WOTUS

1.6 Schedule

It is anticipated that the Project will be completed in one phase, commencing in the fall of 2026.

1.7 Greenhouse Gas Emissions Policy Waiver Request

Although the Project does not meet the mandatory EIR thresholds under 301 CMR 11.03, the Proponent is submitting an EIR because Environmental Justice (EJ]) populations are located within the Designated Geographic Area (DGA) of the Project site, as further described in Section 1.8 below. The Proponent is seeking a waiver from compliance with the MEPA Greenhouse Gas Emission Policy and Protocol (GHG Policy) since GHG Policy pursuant to the policy's De Minimis Exemption since the Project does not result in an increase in the number of stationary or mobile sources of GHG. While the Project will result in minor and temporary construction-related vehicle trips, Massport is committed to reducing air quality impacts associated with vehicular emissions during construction by requiring the use of ultra-low sulfur diesel fuel and anti-idling measures.

Massport has adopted a comprehensive sustainability program that includes a Net Zero Emissions Roadmap[2], aiming to achieve net-zero greenhouse gas emissions by 2031, nearly 20 years ahead of state and federal targets. This roadmap focuses on electrification of buildings and equipment, on-site renewable energy generation, energy efficiency improvements, and the purchase of green power. Massport also invests in electric vehicle infrastructure and promotes high-occupancy vehicle transportation programs to reduce emissions from ground access. These initiatives reflect Massport's commitment to mitigating GHG emissions across its aviation and maritime facilities and ensuring that all projects align with its long-term climate goals.

1.8 Environmental Justice Considerations

The Project will provide both short- and long-term environmental and public health benefits by protecting existing resource areas and adjacent public infrastructure. Additionally, the creation of new coastal resources will ensure the preservation and resilience of the site. This protection is particularly important during severe weather events and in response to projected sea level rise. The Project will implement measures to prevent erosion, maintaining the integrity of the coastal resource areas and reducing the risk of flooding and other related issues. Overall, the Project aims to create a healthier, more sustainable environment that protects vital coastal resources and public infrastructure.

Section 60 of Chapter 8 of the Acts of 2021: An Act Creating a Next-Generation Roadmap for Massachusetts Climate Policy (the "Climate Roadmap Act") (Adding new Section 62J to M.G.L. c. 30), directs the Secretary of the EEA to provide opportunities for meaningful public involvement by EJ populations during the MEPA review process. Section 60 also specifies certain requirements for ENFs filed with the MEPA office. For new projects filed after January 1, 2022, all ENFs must provide a narrative identifying EJ population within one (1) mile of the project site and describe whether the project is reasonably likely to negatively affect such EJ populations. If the proposed project is anticipated to affect air quality, then the radial influence on EJ populations increases to within five (5) miles of the project site. The proposed improvements to be implemented as part of the preferred alternative selected by Massport to advance into permitting is not anticipated to affect air quality. Accordingly, EJ populations within the vicinity of the Project site have been identified using the Massachusetts GIS EJ Mapping tool and are shown in Attachment H.

The proposed Project is intended to enhance the coastal resiliency of the shoreline. The Project does not pose a threat to public health and will ensure the future safety of the infrastructure in the vicinity of the site. The Project will not negatively affect EJ populations within the designated geographic area and there are no existing unfair or inequitable environmental burdens or related health consequences associated with this Project. Massport has been in coordination with local and state elected officials, representatives in East Boston and Winthrop, the Massport Community Advisory Committee , and community stakeholder groups. The Project has complied with Section II of the Protocol and 301 CMR 11.05(4)(b) by providing advance notification of the EENF filing no earlier than 45 days, and no later than 90 days prior to filing the EENF. Advanced notification of the Project filing was provided on October 31, 2025 (see Attachment H), along with publications in the *East Boston Times* and the *Winthrop Sun Transcript*. Massport recently met with the Friends of Belle Isle Marsh in November 2025 to review the Project and plans to conduct a site visit with them in early December 2025. Additionally, Massport presented updated Project information to the Orient Heights Neighborhood Council on November 17, 2025.

[2] Massachusetts Port Authority (Massport). (2023). Net Zero Emissions Roadmap. Retrieved from https://www.massport.com/environment/net-zero-roadmap

1.9 Climate Change Adaptation and Resiliency

The Resilient Massachusetts Action Team (RMAT) Climate Resilience Design Standards Tool was utilized for the Project. Execution of the design standards tool resulted in an Ecosystem Benefits score of Moderate. The results also indicated High Exposure to Sea Level Rise/Storm Surge and Extreme Heat, Moderate Exposure to Extreme Precipitation - Urban Flooding, and Not Exposed to Extreme Precipitation – Riverine Flooding. The RMAT Climate Resilience Design Standards Tool Project Report is provided in Attachment G.

2. Environmental Impacts, Avoidance and Minimization Measures

2.1 Coastal Resource Areas

As shown on the plans included in Attachment K, the Project site is located in the vicinity of a shellfish suitability area (Land Containing Shellfish), Land Subject to Coastal Storm Flowage (LSCSF), Rocky Intertidal Shore, Land Under Ocean (LUO), and Coastal Beach, Coastal Bank, and the 100-ft Buffer Zone, as defined in accordance with the 310 CMR 10.00 Wetlands Protection Act (WPA) Regulations. Coastal resource areas were identified using a combination of Massachusetts GIS with field confirmation. Tidal datums were used to identify the limits of Coastal Beach and several of the resource areas.

Under Massport's Enabling Act (Ch. 465 of the Acts of 1956 as amended), Massport is charged with the development, operation and maintenance of its properties (see Section 3(g) of the Enabling Act). As a general rule, Massachusetts case law provides that an authority or agency of the Commonwealth is not subject to municipal bylaws, ordinances or regulations, so long as the authority or agency is performing an "essential governmental function" and there is no specific statutory provision to the contrary (see also Section 2 of the Enabling Act). Accordingly, as the proposed Project is the performance of an essential government function by Massport and the Enabling Act does not specifically require Massport to be subject to local wetland ordinances, the Project filing by Massport is not subject to the City of Boston's local Wetland Ordinance and related regulations.

In accordance with the WPA Regulations, a Notice of Intent (NOI) will be filed with the Boston Conservation Commission (Commission). The Project team has been engaged in ongoing coordination with the Commission, and it is anticipated that an OOC approving the Project will be issued.

2.1.1 Land Containing Shellfish (310 CMR 10.34)

The WPA defines Land Containing Shellfish (LCS) as land under the ocean, tidal flats, rocky intertidal shores, salt marshes and land under salt ponds when any such land contains shellfish. Shellfish species as described in 310 CMR 10.34 as Bay Scallop (*Argopecten irradians*), Blue Mussel (*Mytilus edulis*), Ocean Quahog (*Arctica islandica*), Oyster (Crassostrea virginica), Quahog (*Mercenaria mercenaria*), Razor Clam (*Ensis directus*), Sea Clam (*Spisula solidissima*), Sea Scallop (*Placopecten magellanicus*), and Soft shell Clam (*Mya arenaria*).

WHEN A RESOURCE AREA, INCLUDING LAND UNDER THE OCEAN, TIDAL FLATS, ROCKY INTERTIDAL SHORES, SALT MARSHES, OR LAND UNDER SALT PONDS IS DETERMINED TO BE SIGNIFICANT TO THE PROTECTION OF LAND CONTAINING SHELLFISH AND THEREFORE TO THE PROTECTION OF MARINE FISHERIES, 310 CMR 10.34(4) THROUGH (8) SHALL APPLY:

4) *Except as provided in 310 CMR 10.34(5), any project on land containing shellfish shall not adversely affect such land or marine fisheries by a change in the productivity of such land caused by: (a) alterations of water circulation; (b) alterations in relief elevation; (c) the compacting of sediment by vehicular traffic; (d) alterations in the distribution of sediment grain size; (e) alterations in natural*

drainage from adjacent land; or (f) changes in water quality, including, but not limited to, other than natural fluctuations in the levels of salinity, dissolved oxygen, nutrients, temperature or turbidity, or the addition of pollutants.

5) *Notwithstanding the provisions of 310 CMR 10.34(4), projects which temporarily have an adverse effect on shellfish productivity but which do not permanently destroy the habitat may be permitted if the land containing shellfish can and will be returned substantially to its former productivity in less than one year from the commencement of work, unless an extension of the Order of Conditions is granted, in which case such restoration shall be completed within one year of such extension.*

6) *In the case of land containing shellfish defined as significant in 310 CMR 10.34(3)(b) (i.e., those areas identified on the basis of maps and designations of the Shellfish Constable), except in Areas of Critical Environmental Concern, the issuing authority may, after consultation with the Shellfish Constable, permit the shellfish to be moved from such area under the guidelines of, and to a suitable location approved by, the Division of Marine Fisheries, in order to permit a proposed project on such land. Any such project shall not be commenced until after the moving and replanting of the shellfish have been commenced.*

7) *notwithstanding 310 CMR 10.34(4) through (6), projects approved by the Division of Marine Fisheries that are specifically intended to increase the productivity of land containing shellfish may be permitted. Aquaculture projects approved by the appropriate local and state authority may also be permitted.*

8) *notwithstanding the provisions of 310 CMR 10.34(4) through (7), no project may be permitted which will have any adverse effect on specified habitat of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.37.*

The Project aims to create a resource area that will benefit the site and surrounding area. Approximately 1,600 sf of LCS will be temporarily impacted by the development of the Project. The Proponent has engaged in discussions with local, state, and federal resource agencies, including the DMF Shellfish Program, and will continue to coordinate with these agencies throughout the permitting process. As mentioned previously, Massport selected the Project site due to its proximity to Logan International Airport, as directed by the Secretary's Certificate for the Runway 27 RSA Project. Additionally, a mitigation fee was provided to DMF to support off-site restoration efforts. It is anticipated that there will be little to no impact on the resource area, with any potential impacts confined to the construction period. According to Massachusetts GIS data, there are mapped shellfish suitability areas, specifically for blue mussels, within the immediate vicinity of the Project. The proposed work is not anticipated to adversely affect shellfish productivity.

2.1.2 Land Subject to Coastal Storm Flowage (310 CMR 10.02)

The WPA defines Lands Subject to Coastal Storm Flowage (LSCSF) as "land subject to any inundation caused by coastal storms up to and including that caused by the 100-year storm, surge of record or storm of record, whichever is greater." The areas mapped by the Federal Emergency Management Agency (FEMA) on community Flood Insurance Rate Maps (FIRM) as the 100-year flood plain within the coastal zone are included within LSCSF. LSCSF may be significant to the interests of storm damage prevention, flood control, pollution prevention and wildlife habitat. LSCSF in this area contains other jurisdictional resource areas which are important for storm damage prevention and flood control.

The proposed Project will result in a change in resource area classification under the WPA. Specifically, portions of the existing LSCSF will be converted into new Coastal Beach resource areas. This occurs because the construction of the buried revetment and associated grading will create a stable sloped feature

that meets the definition of a Coastal Bank, and the placement of compatible material seaward of the revetment. These changes represent an increase in resource area diversity and function within the Project site.

There are currently no performance standards for work in LSCSF in WPA 310 CMR 10.04. The Project will enhance the flood storage and storm damage prevention capacity of the site; it has been designed to alleviate flooding during extreme tide cycles and withstand environmental forces during 100-year storm events. A portion of the excavated material (approximately 1,000 CY) may be placed landward of the proposed coastal restoration area, if the soil concentrations are acceptable for onsite reuse, which will be determined by the site LSP. The proposed activity in the LSCSF will not adversely impact its ability to remove suspended solids and other contaminants from runoff before they enter other wetland resource areas or bodies of water. Instead, the Project will support and enhance these functions, ensuring the site's pollution prevention capabilities are maintained and even improved. Additionally, the proposed work will not redirect natural flow or floodwaters.

2.1.3 Rocky Intertidal Shore (310 CMR 10.31)

The WPA defines Rocky Intertidal Shore (RIS) as naturally occurring rocky areas, such as bedrock or boulder-strewn areas between the mean high water line and the mean low water line. The Project is not anticipated to impact the Rocky Intertidal Shore present to the northeast of the proposed work area. The Project will meet the performance standards for Rocky Intertidal Shore as follows:

When a Rocky Intertidal Shore Is Determined to Be Significant to Storm Damage Prevention, Flood Control, or Protection of Wildlife Habitat, any proposed project shall be designed and constructed, using the best practical measures, so as to minimize adverse effects on the form and volume of exposed intertidal bedrock and boulders.

The Project is not anticipated to impact the Rocky Intertidal Shore present to the northeast of the proposed work area. Best practical measures have been incorporated into the planning and execution of construction activities to avoid unnecessary disturbance, as well as the implementation of protective barriers and erosion control techniques. By doing so, the Project aims to maintain the natural integrity of the Rocky Intertidal Shore, thereby supporting its critical functions in storm damage prevention, flood control, and wildlife habitat protection.

When a Rocky Intertidal Shore is determined to be significant to the protection of marine fisheries or wildlife habitat, any proposed project shall if water-dependent be designed and constructed, using best available measures, so as to minimize adverse effects, and if non-water-dependent, have no adverse effects, on water circulation and water quality. Water quality impacts include, but are not limited to, other than natural fluctuations in the levels of dissolved oxygen, temperature or turbidity, or the addition of pollutants.

The proposed Project has been designed with the best available measures to minimize any adverse effects on water circulation and water quality. These measures include the use of environmentally sensitive construction techniques, erosion and sediment control practices, and the careful management of construction materials to prevent pollution.

2.1.4 Land Under Ocean (310 CMR 10.25)

The WPA defines Land Under Ocean (LUO) as land extending from the mean low water (MLW) line seaward to the boundary of the municipality's jurisdiction and includes land under estuaries. The proposed Project meets the performance standards for LUO as follows:

a. *water circulation*: The proposed work will not impact water circulation in the vicinity of the resource area. The Project design ensures that there are no obstructions or alterations to the flow patterns that could disrupt the existing water dynamics.

b. *distribution of sediment grain size*: The proposed work will not impact the distribution of sediment grain size of the resource area. The Project will avoid activities that could cause sediment displacement or changes in sediment composition, thereby preserving the natural sediment structure.

c. *water quality*: The proposed work will not impact the water quality of the resource area. The Project includes measures to prevent pollution, such as controlling runoff and avoiding the release of contaminants, ensuring that the water remains clean and safe for all aquatic organisms.

d. *finfish habitat*: The proposed work will not impact finfish habitat. The Project has been designed to avoid any disturbances to these critical areas, ensuring that finfish populations are not adversely affected and can continue to thrive in their natural environment.

e. *important food for wildlife*: The proposed work will not impact important food for wildlife. The Project will ensure that these food sources are not disrupted, supporting the continued health and biodiversity of the wildlife that relies on them.

2.1.5 Coastal Beach (310 CMR 10.27)

The WPA defines Coastal Beach as unconsolidated sediment subject to wave, tidal and coastal storm action that forms the gently sloping shore of a body of salt water. Coastal Beaches extend from the Mean Low Water (MLW) line landward to the dune line, coastal bank line or the seaward edge of existing man-made structures, when these structures replace one of the above lines, whichever is closest to the ocean. Coastal Beaches may play an important role in storm damage prevention, flood control and the protection of marine fisheries similar to Land Under Ocean (LUO). They may also be significant to the protection of Land Containing Shellfish when shellfish are present. Coastal Beaches may reduce wave energy, and natural beaches provide sediment to LUO, which serves as a buffer to storm waves.

The Project aims to protect and restore the existing Coastal Beach resource area on the site, providing a natural buffer against wave action and erosion during storms, especially at low tide. The Project also includes the restoration of Coastal Beach within the footprint of the existing pier to be removed, and coastal restoration landward of the pier. The creation of approximately 21,890 sf of Coastal Beach will naturally protect against rising water elevations and storm events. As shown in the Project plan and typical section included in Attachment K, approximately 6,400 sf of added resource area will be located landward of the proposed buried revetment, and approximately 15,500 sf of added resource area will be located seaward of the proposed buried revetment.

The Project meets the performance standards for Coastal Beach as follows:

a. *Volume (quantity of sediments) and form*: The proposed work will ensure that the volume and form of the coastal beach are preserved and enhanced with the creation of additional Coastal Beach resource area. This will assist in maintaining the sediment supply and distribution, which is crucial for the shoreline's stability and ecological functions.

b. *Ability to respond to wave action*: The Project is designed to enhance the site's ability to respond to wave action.

c. *Distribution of sediment grain size*: The Project will restore and create Coastal Beach on the previously altered site, therefore improving its physical characteristics and resilience.

d. *Water circulation*: The proposed Project will enhance water circulation by ensuring that the natural flow of water is not obstructed. This will be achieved through careful planning and design, which will maintain the natural hydrodynamics of the restored Coastal Beach. Improved water circulation will help in maintaining the ecological balance and health of the environment.

e. *Water quality:* The Project will implement measures to protect and improve water quality. This includes controlling runoff and preventing pollutants from entering the coastal beach area. By maintaining high water quality, the Project will support the diverse marine life and shoreline stability. Additionally, the installation of the new revetment will prevent sediment erosion.

f. *Relief and elevation*: The Project will enhance the natural relief and elevation of the Coastal Beach. Overall, the Project is designed to restore and create Coastal Beach to improve the site's resilience to environmental changes.

2.1.6 Coastal Bank (310 CMR 10.02)

According to 310 CMR 10.30(2), "Coastal Bank means the seaward face or side of any elevated landform, other than a coastal dune, which lies at the landward edge of a coastal beach, land subject to tidal action, or other wetlands." The existing stone and concrete block seawall located in the southwestern portion of the proposed work area can be described as Coastal Bank because it is situated at the landward edge of a coastal area subject to tidal action. Even though the Coastal Bank is armored and does not supply sediment, and the site has been previously altered, it is recognized that it is associated with Land Subject to Coastal Storm Flowage (LSCSF) within the site, and it still contributes to storm damage prevention.

The Project will impact approximately 320 linear feet (LF) of the existing armored Coastal Bank due to the removal of the existing timber pier, pilings, and bulkhead and the installation of the new stone revetment. The Project aims to improve the site to benefit both the natural ecosystem and the community and will create approximately 21,890 sf of Coastal Beach resource area. BMPs will be used to minimize impacts to resource areas throughout the construction process.

WHEN A COASTAL BANK IS DETERMINED TO BE SIGNIFICANT TO STORM DAMAGE PREVENTION OR FLOOD CONTROL BECAUSE IT IS A VERTICAL BUFFER TO STORM WATERS, 310 CMR 10.30(6) THROUGH (8) SHALL APPLY:

(6) Any project on such a coastal bank or within 100 feet landward of the top of such coastal bank is intended to improve the stability of the existing coastal embankment. The proposed work shall have no adverse effects on the stability of the coastal bank.

The Project will have no adverse effects on the stability of the Coastal Bank. The Project will improve the site with the removal of the existing timber pier and associated pilings and bulkhead and will create additional coastal resource area.

(7) Bulkheads, revetments, seawalls, groins or other coastal engineering structures may be permitted on such a coastal bank except when such bank is significant to storm damage prevention or flood control because it supplies sediment to coastal beaches, coastal dunes, and barrier beaches.

The existing armored Coastal Bank does not supply sediment to coastal beaches, dunes, or barrier beaches, and there is minimal longshore drift in this area.

(8) Notwithstanding the provisions of 310 CMR 10.30(3) through (7), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.37.

The Project will not adversely affect habitat sites or rare vertebrate or invertebrate species.

2.2 Biological Resources

The proposed Project is not expected to significantly impact biological resources in the vicinity of the Project. The Project will create coastal beach resource area, which will enhance the site from its existing conditions. By introducing measures to stabilize sediments, improve water quality, and support natural vegetation, the Project will foster a healthier and more resilient coastal ecosystem. These enhancements will not only protect the site from erosion and other environmental stresses but also provide a habitat for various marine and coastal species, thereby enriching the local biodiversity. Overall, the Project aims to transform the area into a thriving coastal environment that benefits both the natural ecosystem and the community.

According to the Natural Heritage and Endangered Species Program (NHESP) Atlas (15th edition; effective August 1, 2021), the Project limits are not located within designated Priority Habitats of Rare Species or Estimated Habitats of Rare Wildlife and therefore will not require review pursuant to the Massachusetts Endangered Species Act (MESA). There are no certified or potential vernal pools within the Project area.

2.3 Areas of Critical Environmental Concern

The Rumney Marshes ACEC is located north of the proposed work (see Attachment E). The proposed Project will significantly enhance protection at the site from erosion and climate change-related issues, such as sea level rise. By stabilizing the shoreline and promoting the growth of native vegetation, the Project will create a more resilient coastal environment capable of withstanding these challenges. By adhering to the following measures, the Project will ensure compliance with MassDEP's Stormwater Management Regulations, ultimately contributing to the long-term health and sustainability of the Rumney Marshes ACEC.

- During construction, the Project will implement several measures to comply with the standards outlined in MassDEP's Stormwater Management Regulations.
- Stormwater Runoff Control: The Project will incorporate BMPs to manage and treat stormwater runoff, preventing pollutants and sediment entering the marshes.
- Establishing conditions that are conducive to vegetative buffers along the shoreline will help to filter stormwater, trap sediments, and absorb excess nutrients before they reach the water bodies.
- Erosion Control Measures: The Project will include erosion control measures such as silt fences, erosion control blankets, and other stabilization techniques to prevent soil loss during construction and after Project completion.

2.4 Stormwater

The proposed Project is anticipated to improve the site's ability to provide protection from coastal storm events and sea level rise as it aims to stabilize the existing shoreline and establish coastal resource area (Coastal Beach). The creation of Coastal Beach will naturally protect against rising water elevations and storm events. There will be no increase of impervious area on the site.

2.5 Water Quality

The Project is located within the Winthrop Bay Watershed. Known potential pollutants within the Project area may include PCBs in Fish Tissue, Enterococcus, Fecal Coliform and additional unknown sources. It is not anticipated that the Project will have an impact on the water quality of Boston Harbor.

In order to avoid impacting water quality during construction, construction BMPs will be implemented throughout the Project site. Sedimentation and erosion controls such as a silt fence, fiber rolls, silt socks, and/or the covering of soil piles, etc. will be used to avoid and minimize impacts to adjacent resource areas. The Project will be reviewed by MassDEP for a 401 Water Quality Certification.

2.6 Hazardous Materials

The Project is located on an MCP disposal site (a Tier Classified 21E Site). The upland portion of the site was closed with a Partial Class B-2 RAO with an AUL, while the mudflat portion remains open under a Partial Class C-1 RAO. Some of the soil and sediment are classified as Remediation Waste under the MCP and contain oil or hazardous materials. The Project will be conducted as a RAM under the MCP and under the oversight of an LSP. The Project will generate Remediation Waste which will be disposed offsite under the oversight of the LSP. One of the main goals of the Project is to ensure the condition of No Significant Risk on the upland portion of the site and comply with the AUL.

Facilities identified within a 1-mile radius of the Project site include:

- 9 facilities listed as Major Air and Waste Facilities;
- 3 Tier 1 21E Facilities;
- 10 facilities Tier 2 21E Facilities;
- 12 sites with Activities and Use limitations;
- 12 sites containing underground storage tanks; and
- 2 EPA facilities

During construction, absolutely no release of any petroleum product, epoxies, resins, admixtures, touch-up coatings or the like will be allowed into the Harbor. Accidental releases will be reported to Massport Fire Alarm, the Project manager, Massport Environmental, and if applicable based on the location and volume of the release, MassDEP, the US Coast Guard, and/or the National Response Center. Any hazardous materials on site will be marked with the name of the material on the container and stored in the contractor's vehicle or in secondary containment. No washing or refueling of vehicles will be allowed on site. The refueling of construction equipment will not be permitted within 100 feet of any resource area.

2.7 Solid Waste

The Project will generate a minor amount of contained solid waste during construction. All construction debris generated as a result of the Project will be removed from the site and disposed of at an appropriate upland disposal location. Dumpsters and/or waste bins will be located on site and will remain covered at all times. The contractor will be required to remove all construction equipment, materials, debris and waste from the site upon completion of the Project. GEI, the Project LSP, will oversee soil management for the Project as part of the RAM activities, as required by the AUL.

2.8 Noise

No long-term impacts to noise quality will occur as a result of the Project. Any noise impacts associated with the Project will occur during construction and will cease once the revetment is complete. Construction equipment will be fitted with mufflers or other noise reducing equipment. No blasting is anticipated as part of this Project. Noise shall not exceed a maximum permitted sound level of 60 dBA and shall be restricted to Monday – Friday 7 AM to 5 PM and Saturday 9 AM to 3 PM or whatever other time frame will be stipulated in the permits.

2.9 Air Quality

No direct or indirect increases or other changes in local or regional air quality are likely to occur with construction of the proposed Project. Emissions of air pollutants during construction will be below de minimis levels. Construction equipment and vehicles will be required to use ultra-low sulfur fuels. Dust suppression measures such as the use of a water truck or hose and the covering of soil piles will be used during construction to minimize impacts. All construction equipment will be maintained in compliance with all applicable state and federal emission regulations. In accordance with the Massachusetts Ani-Idling Law (MGL Ch. 90, Section 16A and its associated regulation at 310 CMR 7.11), equipment and vehicles will not be allowed to idle for more than 5 minutes at the site during construction. Equipment will not be allowed to idle without an operator in the cab.

2.10 Cultural Resources

There are no National Register Listed, National Register Eligible or properties listed on the Massachusetts Historical Commission's (MHC) Inventory of Historic and Archaeological Assets (Inventory) within the Project limits. The Saratoga Street Bridge, located to the north of the site, is listed in the Inventory (BOS.910). The Project will provide protection for the infrastructure by stabilizing the surrounding area and mitigating erosion. If any cultural or archaeological resources or human remains are encountered during construction, the contractor will be required to stop work and report the siting to the Massport and Foth project managers. Massport will direct the contractor to resume work after all appropriate actions have occurred.

2.11 Transportation

There may be a minor impact to local transportation during construction. A traffic management plan will be put into place to minimize impacts to the motoring public. A traffic monitor or police control will be stationed on side during times when traffic and pedestrians must be routed around the work. If a detour is used, detour signs will be installed to route traffic to other roads. Impacts to transportation will return to normal upon completion of construction.

3. Alternatives Analysis

3.1 Development of Proposed Design

Several alternatives were considered and thoroughly evaluated before the Project team selected the currently proposed design as the preferred alternative. During this evaluation process, each option was assessed based on its ability to meet the Project's primary goals: protecting adjacent infrastructure while minimizing impacts to coastal resources and creating additional coastal resource area. The preferred design was chosen because it optimizes resiliency of the existing shoreline and maximizes the addition of resource area within the constraints of existing topography, roadway alignment, and surrounding wetlands. The alternatives analysis cross sections for both the preferred alternative and the Partially Buried 2:1 Revetment with 7,300 sf Resource Area Restoration alternative (see Section 3.1.6 below) are included in Attachment F to illustrate the comparative approach and demonstrate how the preferred alternative best meets Project objectives. The considered alternatives include:

- No Build;
- Vertical Sheet Pile Bulkhead
- Engineered Vegetated Bank
- Sloped Armor Stone Revetment
- Only Remove Existing Timber Pier Structure
- Partially Buried 2:1 Revetment with 7,300 sf Resource Area Restoration; and
- Partially Buried 1.5:1 Revetment with 21,890 sf Resource Area Restoration (Preferred)

3.1.1 No-Build

The no-build alternative would involve leaving the site as-is with no improvements. If left in its current state, the existing timber pier and bulkhead will continue to deteriorate and would leave the upland portion of the site unprotected from disturbance. This alternative does not meet Project goals and is not recommended.

3.1.2 Vertical Sheet Pile Bulkhead

This alternative would involve replacing the existing bulkhead with a steel sheet pile bulkhead to an elevation of approximately +10.0' NAVD88. Foth does not recommend this alternative as it could lead to additional environmental impact through the placement of a steel or concrete structure within coastal resource areas. This alternative also leads to increased risk of scour at the base of the structure and thus undermining the adjacent resource areas or causing excessive erosion along the coastal beach. This alternative does not result in the restoration of coastal resource area. This alternative does not meet Project goals and is not recommended.

3.1.3 Engineered Vegetated Bank

This alternative includes the installation of geotextile fabric to form an engineered vegetated bank. Contaminated soil remains on the upland portion of the site, as indicated by the AUL , which complicates the implementation of a soft solution. Natural solutions, such as an engineered vegetated slope, can offer protection against routine events. Foth does not recommend this alternative due to the criticality of protecting the adjacent Saratoga Street, minimizing erosion of contaminated soil and critical public infrastructure, and adjacent resource areas. This alternative does not meet Project goals and is not recommended.

3.1.4 Sloped Armor Stone Revetment

This alternative shares similar components as the preferred alternative; however, it involves exposing the entire revetment without creating additional coastal resource area. Specifically, the increased exposed revetement footprint could disrupt the natural habitat and potentially lead to erosion and sedimentation issues. This extension would cause further disruption to the inlet's ecosystem and could negatively affect water quality and marine life. The exposed revetement creates more wave reflection than the preferred alternative. Overall, this alternative does not align with the Project goals of minimizing environmental impact and enhancing coastal resource areas. Therefore, it is not recommended.

3.1.5 Only Remove Existing Timber Pier Structure

This alternative would only remove the visible portions of the existing deteriorating timber pier. This alternative does not include any additional measures to stabilize the shoreline. As a result, the shoreline would continue to deteriorate over time due to ongoing erosion and the impacts of future sea level rise. Without the pier and any protective structures, the shoreline would be more exposed to wave action and tidal forces, accelerating the rate of erosion, which could lead to the loss of valuable land and protection of the adjacent infrastructure, and additional costly repairs and potential safety hazards for the community. Therefore, this alternative is not recommended.

3.1.6 Partial Buried 2:1 Revetment with 7,300 sf Resource Area Restoration

This alternative proposed restoring the Coastal Beach resource area to provide a natural buffer against wave action and erosion during storms. The concept combined the ecological benefits of a soft solution with the reliability of a hard solution as a failsafe. By creating approximately 7,300 sf of Coastal Beach resource area, this approach aimed to enhance site resilience to storms and erosion while ensuring the soil conditions remain consistent with the existing Permanent Solution for the AUL area for the upland portion of the site. However, this alternative was not selected because it offered limited potential for creating additional resource areas within the constraints of existing topography, roadway alignment, and

surrounding wetlands. While the design provided some resiliency benefits, it did not maximize resource area creation compared to the preferred alternative. The Project team initially considered a sloped stone revetment design at a 2:1 slope but ultimately determined that the preferred alternative would better achieve Project goals by optimizing site capacity and resource creation and enhancement.

3.1.7 Partially Buried 1.5:1 Revetment with 21,890 sf Resource Area Restoration (Preferred)

The preferred alternative offers the most comprehensive protection and ecological benefit for the site. It safeguards critical public infrastructure and equipment located on the upland portion of the site, which is essential for the continued operation of Boston Logan International Airport. In addition to this protection, the preferred alternative restores the Coastal Beach resource area, creating a natural buffer against wave action and erosion during storms. This approach combines the ecological advantages of an engineered vegetated bank, with the reliability of a hard solution (buried revetment) as a failsafe, ensuring long-term resilience. By moving the revetement crest farther inland, the preferred alternative maximizes resource area creation within the constraints of existing topography, roadway, and surrounding wetlands, resulting in approximately 21,890 sf of new resource area. It also results in a shallower slope of the created costal beach seaward of the revetement crest. In contrast, the buried 2:1 sloped revetment alternative would provide approximately 7,300 sf and result in a steeper and potentially less stable coastal beach slope. By significantly increasing the Coastal Beach resource area, this alternative improves the site's ability to absorb storm impacts, reduce erosion, and ensures the condition of No Significant Risk in the upland portion of the site.

4. Mitigation Measures

The Project will include the following mitigation measures to minimize impacts to the surrounding coastal resource areas:

- Construction equipment will not be refueled within buffer zones.
- Construction materials will not be stored within buffer zones.
- The Licensed Site Professional (LSP) will provide construction and soil management oversight to ensure compliance with the site's AUL. The Project will be conducted as a RAM under the MCP.
- The extent of the Project disturbance and ground disturbance shall be limited to the minimum necessary during construction.
- All debris generated as a result of the Project construction shall be removed from the site and disposed of at an appropriate upland disposal location.
- Appropriate BMPs shall be implemented throughout the Project site, including measures to protect the salt marsh area to the south of the proposed Project area of work such as minimizing sedimentation, and controlling runoff.
- All local, state, and federal requirements shall be adhered to maintain and preserve air quality in and around the vicinity of the site.
- Project activities will employ dust suppression measures during construction to minimize impacts. In order to reduce any impacts due to the construction phase, anti-idling and other measures to limit emissions from construction equipment shall be implemented.
- All construction equipment will be maintained in compliance with all applicable state and federal emission regulations. Equipment will not be idled without an operator in the cab.

- Noise shall not exceed a maximum permitted sound level of 60 dBA and shall be restricted to Monday – Friday 7 AM to 5 PM and Saturday 9 AM to 3 PM or whatever other time frame will be stipulated in the permits.

4.1 Construction Best Management Practices

The following is a list of construction Best Management Practices that will be put into place in order to avoid and minimize impacts to resource areas.

- The installation of sedimentation and erosion controls such as silt fence, fiber rolls, silt socks, and/or the covering of soil piles.
- Contractor is responsible for the implementation of a spill control plan.
- All accidental releases of hazardous materials will be reported to Massport Fire Alarm, the Project manager, Massport Environmental, and if applicable based on the location and volume of the release, MassDEP, the US Coast Guard, and/or the National Response Center.
- All construction equipment will be maintained in compliance with all applicable state and federal emission regulations.
- As necessary, a traffic management plan will be put into place to minimize impacts to the motoring public, pedestrians, and cyclists using the adjacent roadway.

5. Analysis of Project Impacts on EJ Populations

The following information is provided as required by 301 CMR 11.07(6)(n)(1) and detailed in Part II of the MEPA Interim Protocol for Analysis of Project impacts on EJ populations and intends to provide an assessment or existing unfair or inequitable environmental burden and related public health consequences impacting the EJ population from any prior or current private, industrial, commercial, state, or municipal operation or project that has damaged the environment. The EJ populations within 1-mile of the Project site are included in Attachment H.

5.1 Assessment of Existing Unfair or Inequitable Environmental Burden

The following assessment provides the results of a survey performed of past and current polluting activities which may have contributed to an “existing environmental burden” impacting the EJ population Census block group, which may be “unfair and inequitable” as compared to the general population.

5.1.1 Vulnerable Health EJ Criteria

The vulnerable health EJ Criteria are four environmentally related health indicators used to identify populations with evidence of higher-than average rates of environmentally related health outcomes. The Massachusetts Department of Health’s Bureau of Climate and Environmental Health worked with EEA to identify the following health indicators of EJ populations.

- Heart Attack: Boston does not meet the Vulnerable Health EJ Criterion for Heart Attack.
- Childhood Blood Lead: Boston does not meet the Vulnerable Health EJ Criterion for childhood blood lead.
- Low Birth Weight: Boston meets the Vulnerable health EJ criterion for low birth weight.
- The Project will not increase or generate any new risks to this EJ population.
- Childhood Asthma: Boston meets the Vulnerable health EJ criterion for childhood asthma.
- The Project will not increase or generate any new risks to this EJ population.

5.1.2 Public Involvement Activities

A public meeting was held by the Orient Heights Neighborhood Association January 13, 2025, where Massport presented on the proposed Project. An additional meeting was held by the Belle Isle Regional Collaboration Stakeholders on January 16, 2025, where Massport presented on the proposed Project. In the EJ Screening form that was distributed to applicable community-based organizations (CBOs), and Tribes, contact information was included for a Project representative that they may contact to request additional information. In addition to CBOs and Tribes, the EJ Screening form was sent to additional contacts provided by Massport.

5.1.3 Assessment Findings of Existing Unfair or Inequitable Environmental Burden

The factors reviewed in this Section, including the Vulnerable Health EJ Criteria, Potential Sources of Pollution, EPA's EJ Screening, and Pre-Filing feedback did not indicate that the proposed Project would have a disproportionate adverse effect on the EJ Populations compared to the general population. The proposed Project will improve public safety by adding protection to the adjacent infrastructure and local environment.

The Project is located on a MassDEP disposal site (a Tier Classified 21E Site). The upland portion of the site was closed with a Partial Class B-2 RAO with an AUL, while the mudflat portion remains open under a Partial Class C-1 RAO. Facilities identified within a 1-mile radius of the Project site include: MassDEP Major Air and Waste Facilities, MassDEP Tier Classified 21E Sites, Tier 2 Facilities, MassDEP Public Water Suppliers, Wastewater Treatment Plants, Underground Storage Tanks, EPA Facilities, Road Infrastructure, MBTA Bus and Rapid Transit, Other Transportation Infrastructure, Regional Transit Agencies, and Energy Generation and Supply. The Project will have no adverse impacts on these locations. The Project will provide protection and coastal resiliency, further stabilizing the upland portion of the site. The proposed Project is intended to improve the coastal environment and its resiliency and does not pose a threat to public health. The Project will not negatively affect EJ populations within the designated geographic area.

5.1.4 Analysis of Project Impacts to Determine Climate Change Effects

The proposed Project was designed using sustainable concepts to restore the site and improve its resiliency; it will improve the site's ability to withstand sea-level rise and other climate change related events. It is concluded that the Project would have no detrimental effects on the EJ population or general populations due to climate change impacts.

6. Summary

Massport is submitting this EENF for review under the Massachusetts Environmental Policy Act. The Project aims to restore the shoreline by removing the deteriorated timber pier, pilings, and bulkhead, improving the environment, and providing mitigation for anticipated impacts associated with the Boston Logan Airport Runway 27 End Runway Safety Area Improvements Project. The Project will also provide long-term protection against severe storms, enhance environmental management, and ensure that a condition of No Significant Risk in support of the Permanent Solution is maintained for the AUL area on the upland portion of the Project site. Best management practices will be used to minimize impacts during construction.

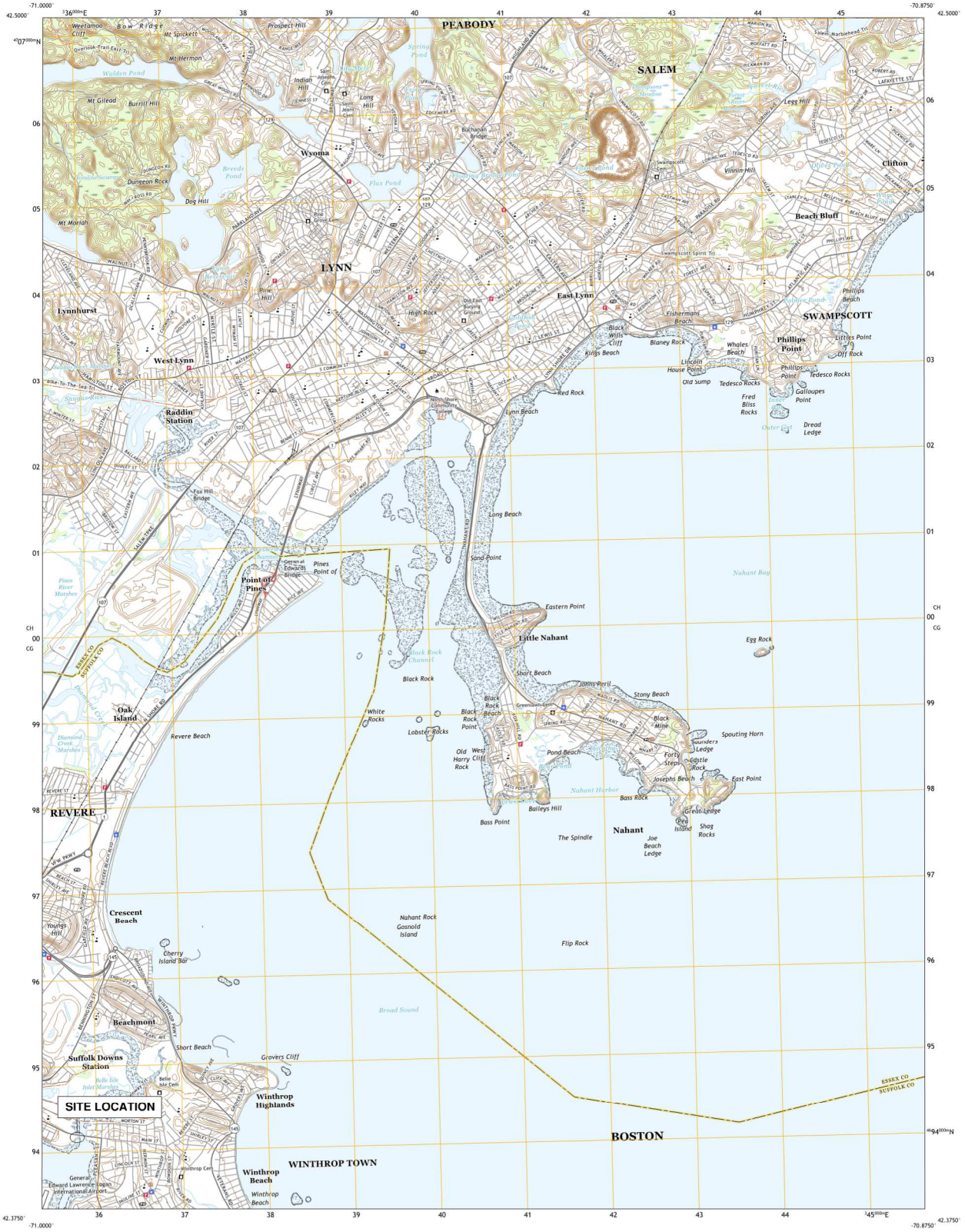
Attachment B

USGS Quadrangle Map

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

LYNN QUADRANGLE
MASSACHUSETTS
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 19T
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, July 2016 - September 2016
Roads.....U.S. Census Bureau, 2016
Names.....GNIS, 1974 - 2018
Hydrography.....National Hydrography Dataset, 2005 - 2016
Contours.....National Elevation Dataset, 2008 - 2012
Boundaries.....Multiple sources; see metadata file 2016 - 2017

Wetlands.....FWS National Wetlands Inventory 1991 - 2011

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
CH
CG
Grid Zone Designation 19T

SCALE 1:24 000

1 0 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
0.5 0 0.5 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Reading
2 Salem
3 Marblehead North
4 Boston North
5 Marblehead South
6 Boston South
7 Hull
8 Nantasket Beach

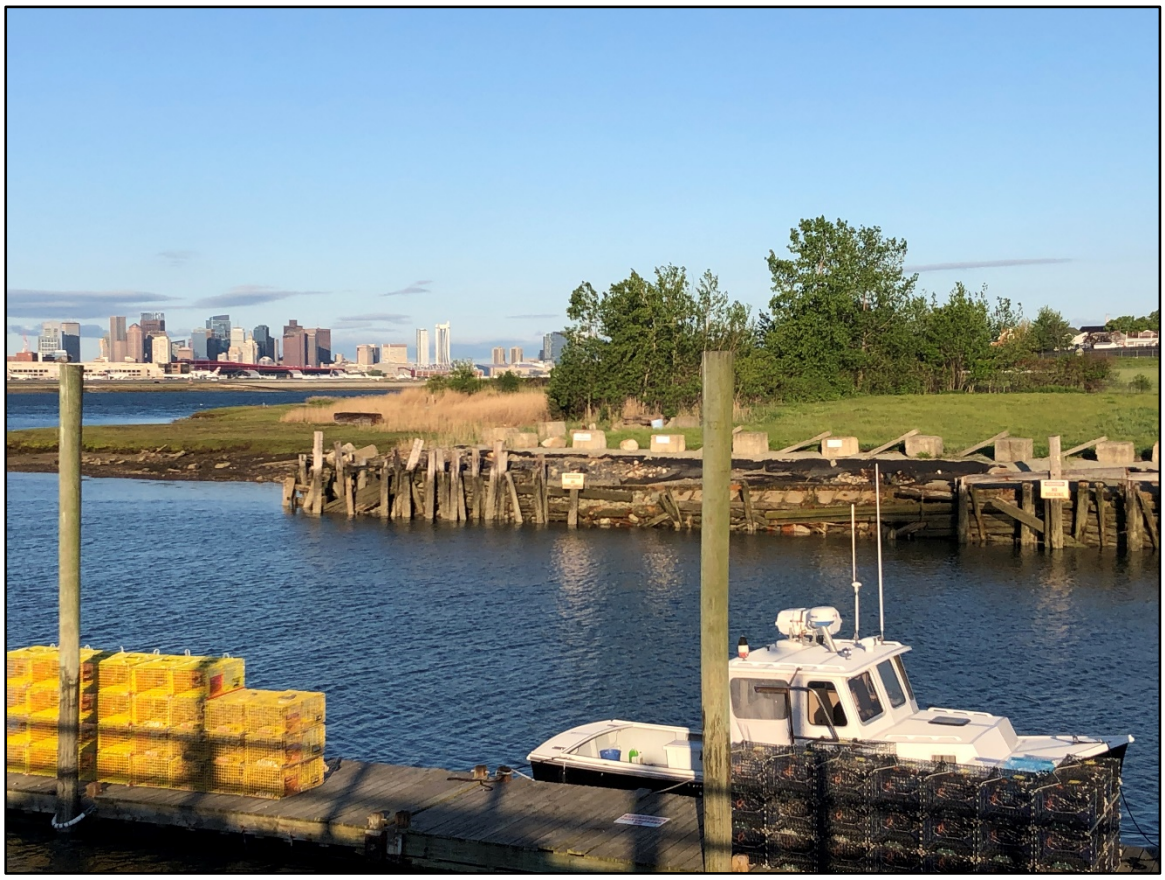
ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

LYNN, MA
2021

NSN 7643013080550
NGA REF NO. USGS X24K7044

Attachment C

Site Photographs



Attachment D

FEMA (FIRMette) Map

National Flood Hazard Layer FIRMette

FEMA

71°0'2"W 42°23'11"N

70°59'25"W 42°22'44"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

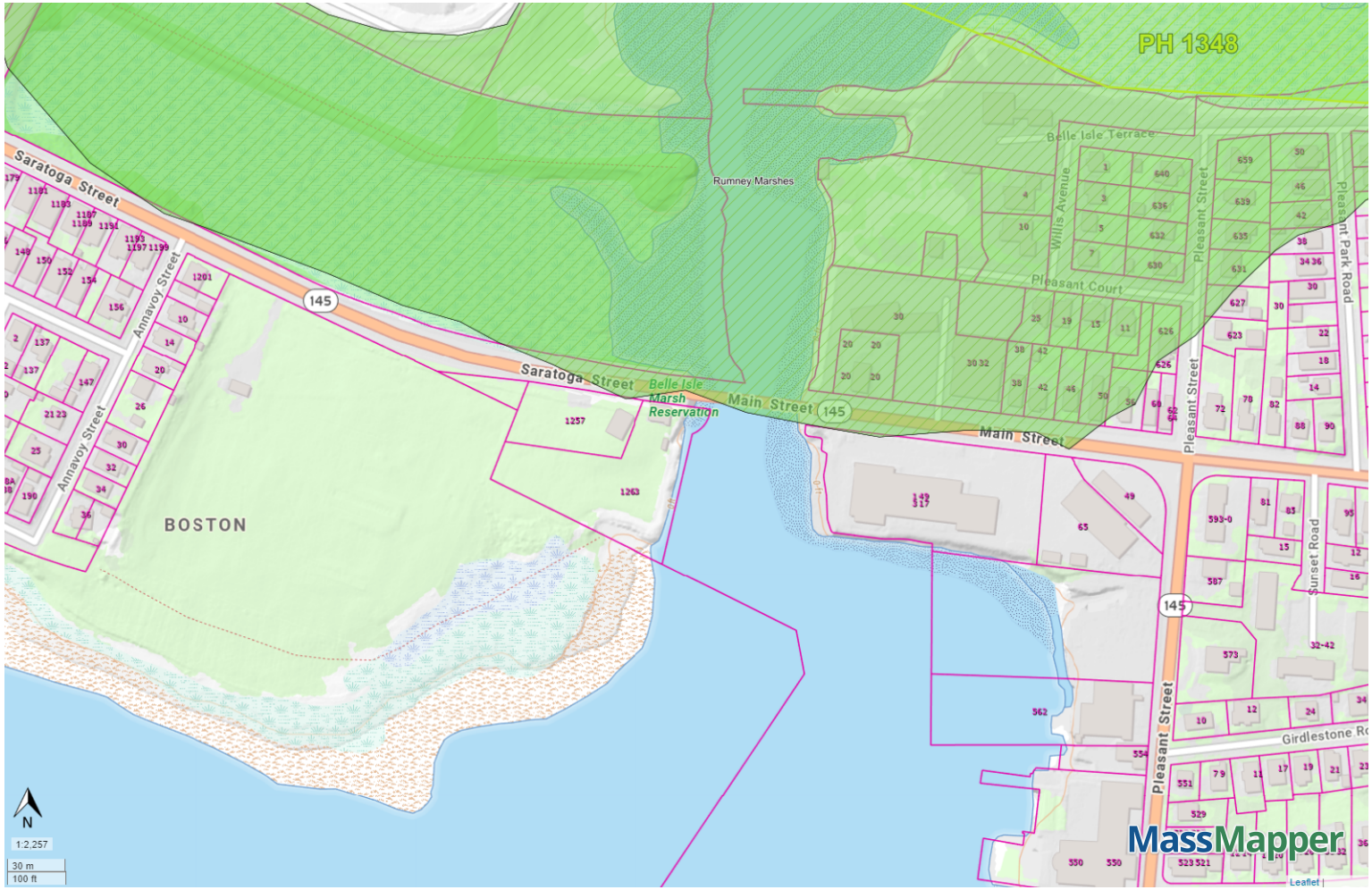
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/13/2025 at 5:47 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Attachment E

ACEC and NHESP Priority & Estimated Habitats Map

ACECs & NHESP



Areas of Critical Environmental Concern ACECs Transparent Green

NHESP Priority Habitats of Rare Species

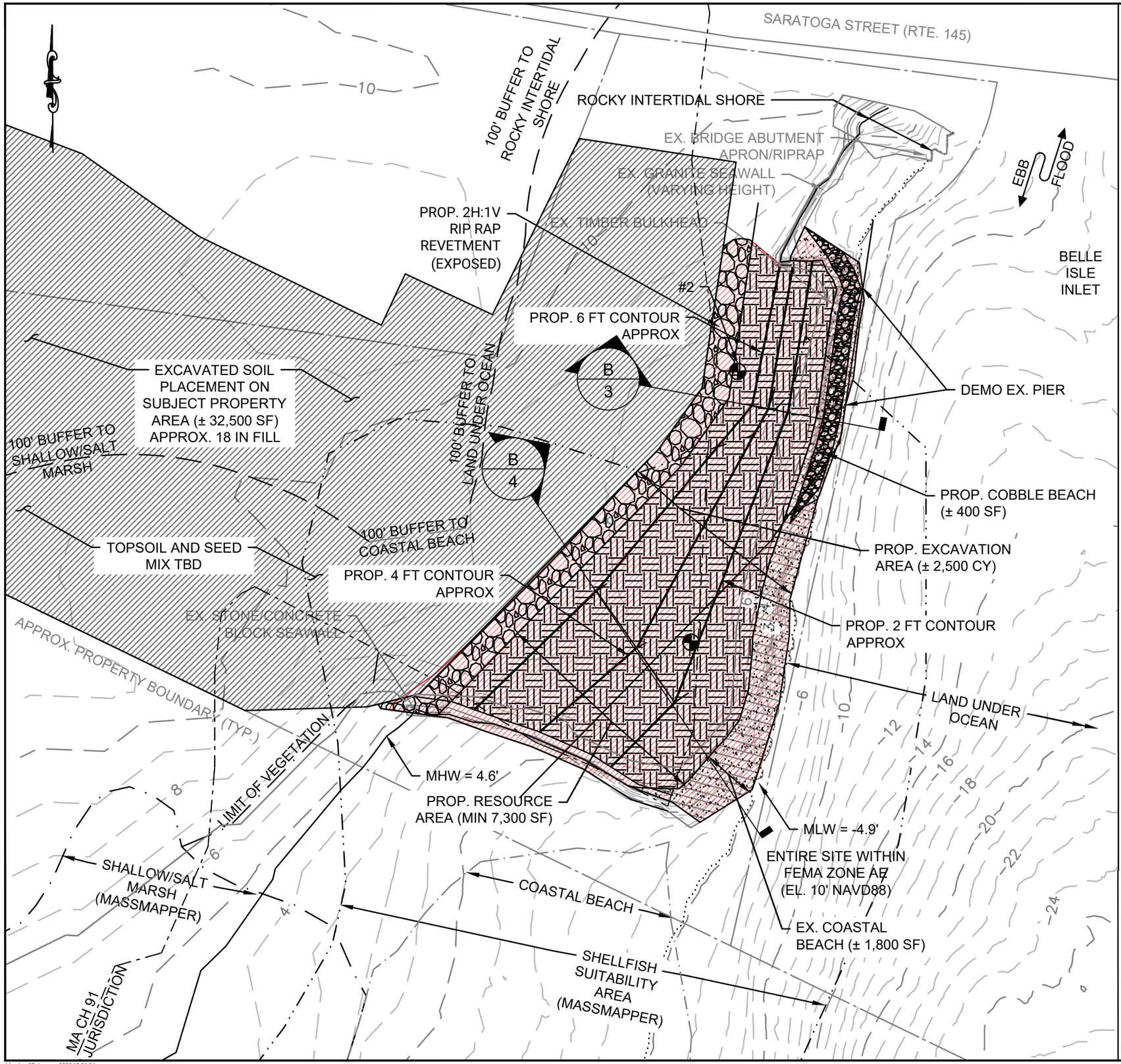
NHESP Estimated Habitats of Rare Wildlife

Areas of Critical Environmental Concern ACECs

Property Tax Parcels

Attachment F

Alternatives Analysis Site Plans



NOTES:

1. THE APPROXIMATE VOLUME OF MATERIAL TO BE EXCAVATED TO RESTORE TIDAL FLAT, COASTAL BEACH, AND CONSTRUCT THE REVETMENT IS 2,500 CY.
2. EXCAVATED MATERIAL TO REMAIN ON SUBJECT PROPERTY, SPREAD AS 18" AVERAGE COVER AND AS FILL AS NECESSARY.

GENERAL NOTES:

1. TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS COLLECTED BY FOTH INFRASTRUCTURE & ENVIRONMENT, LLC. ON 05/17/2023.
2. HORIZONTAL DATUM SHOWN IS BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM - MAINLAND ZONEREFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).
3. THE VERTICAL DATUM SHOWN REFERENCES THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO ELEVATIONS ABOVE THE VERTICAL REFERENCE PLANE.
5. LIMITS OF SALT MARSH AND SHALLOW MARSH ARE BASED ON DATA AVAILABLE FROM MASSMAPPER GIS LAYERS.
6. LIMITS OF THE HISTORIC HIGH TIDE LINE ARE APPROXIMATE AND BASED ON DATA AVAILABLE FROM MASSMAPPER GIS LAYERS.
7. LIMITS OF SHELLFISH SUITABILITY ARE BASED ON DATA AVAILABLE FROM MASSMAPPER GIS LAYERS.

GRAPHIC SCALE

0 15 30 60

(IN FEET)

1 INCH = 30 FEET

SHEET 1 OF 2

SARATOGA STREET SHORELINE RESTORATION EAST BOSTON, MA

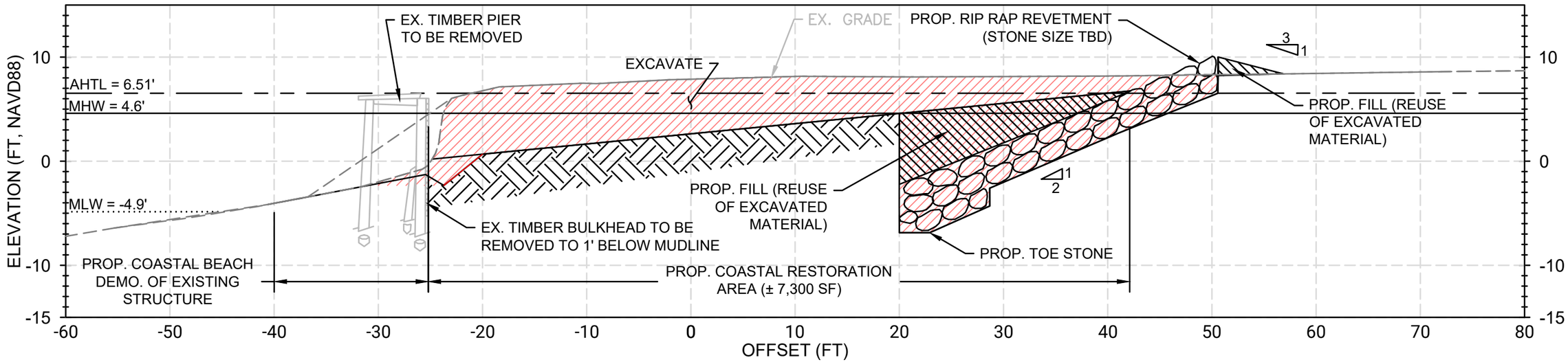
SITE PLAN

PRELIMINARY DESIGN AND RESTORATION PLAN

DATE: 8/01/2024	REV. DATE: 1/27/2025
DRAWN BY: CJS4	CHECKED BY: SRS
PROJECT NO: 0023M060	

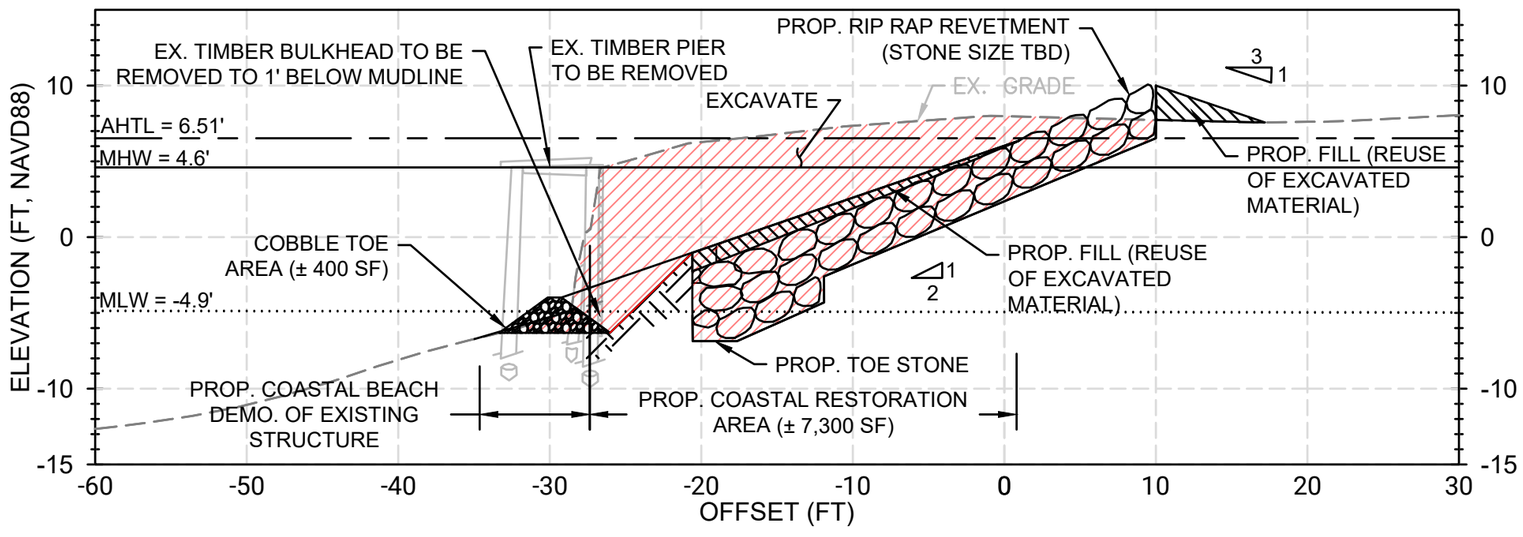
Foth

Monday, 27 January, 2025 13:26:34
DWG Filename: 2024 saratoga street draft alt 2_rev4_plot.dwg Layout: site plan



B / 4 TYPICAL SECTION
SCALE: 1" = 10'

GRAPHIC SCALE
0 5 10 20
(IN FEET)
1 INCH = 10FEET



B / 3 TYPICAL SECTION
SCALE: 1" = 10'

SARATOGA STREET
SHORELINE RESTORATION
EAST BOSTON, MA
TYPICAL SECTIONS
PRELIMINARY DESIGN AND RESTORATION PLAN

SHEET
2 OF 2

DATE: 8/01/2024	REV. DATE: 1/27/2025
DRAWN BY: CJS4	CHECKED BY: SRS
PROJECT NO: 0023M060	

Foth

Monday, 27 January, 2025 13:26:46
DWG Filename: 2024 saratoga street draft alt 2_rev4_plot.dwg Layout: sections

Attachment G

RMAT Climate Resilience Design Standards Tool Project Report

Climate Resilience Design Standards Tool Project Report

Saratoga Street Shoreline Restoration
Date Created: 1/28/2025 9:04:10 AM
Created By: fvardy
Date Report Generated: 11/13/2025 5:20:49 PM
Tool Version: Version 1.4
Project Contact Information: Chris Busch (cbusch@massport.com)

Project Summary

Link to Project

Estimated Capital Cost: $1500000.00
End of Useful Life Year: 2076
Project within mapped Environmental Justice neighborhood: Yes

Ecosystem Service Benefits	Scores
Project Score	Low
Exposure	**Scores**
Sea Level Rise/Storm Surge	High Exposure
Extreme Precipitation - Stormwater Flooding	Moderate Exposure
Extreme Precipitation - Riverine Flooding	Not Exposed
Extreme Heat	High Exposure

Asset Preliminary Climate Risk Rating Summary

Number of Assets: 2

Asset Risk	Sea Level Rise/Storm Surge	Extreme Precipitation - Stormwater Flooding	Extreme Precipitation - Riverine Flooding	Extreme Heat
Coastal Beach Restoration (21,890 sf)	—— Natural Resource project assets do not receive a preliminary climate risk rating. ——			
Revetment (1.5H:1V slope)	High Risk	Moderate Risk	Low Risk	High Risk

Climate Resilience Design Standards Summary

	Target Planning Horizon	Intermediate Planning Horizon	Percentile	Return Period	Tier
Sea Level Rise/Storm Surge					
Coastal Beach Restoration (21,890 sf)	2030				
Revetment (1.5H:1V slope)	2070	2050			
Extreme Precipitation					
Coastal Beach Restoration (21,890 sf)	2030				Tier 1
Revetment (1.5H:1V slope)	2070				Tier 2
Extreme Heat					
Coastal Beach Restoration (21,890 sf)	2030		50th		Tier 1
Revetment (1.5H:1V slope)	2070		50th		Tier 2

Scoring Rationale - Project Exposure Score

The purpose of the Exposure Score output is to provide a preliminary assessment of whether the overall project site and subsequent assets are exposed to impacts of natural hazard events and/or future impacts of climate change. For each climate parameter, the Tool will calculate one of the following exposure ratings: Not Exposed, Low Exposure, Moderate Exposure, or High Exposure. The rationale behind the exposure rating is provided below.

Sea Level Rise/Storm Surge

This project received a "High Exposure" because of the following:

- Located within the predicted mean high water shoreline by 2030
- Exposed to the 1% annual coastal flood event as early as 2030
- Historic coastal flooding at project site

Extreme Precipitation - Stormwater Flooding

This project received a "Moderate Exposure" because of the following:

- Maximum annual daily rainfall exceeds 10 inches within the overall project's useful life
- No historic flooding at project site
- No increase to impervious area
- Existing impervious area of the project site is less than 10%

Extreme Precipitation - Riverine Flooding

This project received a "Not Exposed" because of the following:

- No historic riverine flooding at project site
- The project is not within a mapped FEMA floodplain [outside of the Massachusetts Coast Flood Risk Model (MC-FRM)]
- Project is more than 500ft from a waterbody
- Project is not likely susceptible to riverine erosion

Extreme Heat

This project received a "High Exposure" because of the following:

- 30+ days increase in days over 90 deg. F within project's useful life
- Less than 10% of the existing project site has canopy cover
- Located within 100 ft of existing water body
- No increase to the impervious area of the project site
- No tree removal

Scoring Rationale - Asset Preliminary Climate Risk Rating

A Preliminary Climate Risk Rating is determined for each infrastructure and building asset by considering the overall project Exposure Score and responses to Step 4 questions provided by the user in the Tool. Natural Resource assets do not receive a risk rating. The following factors are what influenced the risk ratings for each asset.

Asset - Coastal Beach Restoration (21,890 sf)
Primary asset criticality factors influencing risk ratings for this asset:

No score available

Asset - Revetment (1.5H:1V slope)
Primary asset criticality factors influencing risk ratings for this asset:

- Asset can be inaccessible/inoperable more than a week after natural hazard event without consequences
- Loss/inoperability of the asset would have impacts limited to the location of infrastructure only
- Inoperability of the asset would not be expected to result in injuries
- Cost to replace is less than $10 million
- There are no hazardous materials in the asset

Project Climate Resilience Design Standards Output

Climate Resilience Design Standards and Guidance are recommended for each asset and climate parameter. The Design Standards for each climate parameter include the following: recommended planning horizon (target and/or intermediate), recommended return period (Sea Level Rise/Storm Surge and Precipitation) or percentile (Heat), and a list of applicable design criteria that are likely to be affected by climate change. Some design criteria have numerical values associated with the recommended return period and planning horizon, while others have tiered methodologies with step-by-step instructions on how to estimate design values given the other recommended design standards.

Asset: Coastal Beach Restoration (21,890 sf) Natural Resources

Sea Level Rise/Storm Surge

Target Planning Horizon: 2030
Intermediate Planning Horizon: Not Applicable

LIMITATIONS: The recommended Climate Resilience Design Standards for the Sea Level Rise / Storm Surge Design Criteria are based on the user drawn polygon and relationships as defined in the Supporting Documents. The projected values provided through the Tool are based on the Massachusetts Coast Flood Risk Model (MC-FRM) outputs as of 9/13/2021, which included GIS-based data for three planning horizons (2030, 2050, 2070) and six return periods (0.1%, 0.2%, 0.5%, 1%, 2%, 5%). These values are projections based on assumptions as defined in the model and the LiDAR used at the time. For additional information on the MC-FRM, review the additional resources provided on the Start Here page.

The projected values, Standards, and Guidance provided within this Tool may be used to inform plans and designs, but they do not provide guarantees for future conditions or resilience. The projected values are not to be considered final or appropriate for construction documents without supporting engineering analyses. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence.

Applicable Design Criteria

Projected Tidal Datums: APPLICABLE

Planning Horizon	MHHW	MHW	MTL	MLW	MLLW
	(ft-NAVD88)				
2030	6.5	6.1	1.3	-3.5	-3.8

Projected Water Surface Elevation: APPLICABLE

Asset Name	Recommended Planning Horizon	Recommended Return Period	Max	Min	Area Weighted Average
			(ft - NAVD88)		
Coastal Beach Restoration (21,890 sf)	2030	5% (20-Year)	9.6	9.6	9.6

Projected Wave Action Water Elevation: APPLICABLE

Asset Name	Recommended Planning Horizon	Recommended Return Period	Max	Min	Area Weighted Average
			(ft - NAVD88)		
Coastal Beach Restoration (21,890 sf)	2030	5% (20-Year)	11.5	10.4	10.9

Projected Wave Heights: APPLICABLE

Asset Name	Recommended Planning Horizon	Recommended Return Period	Max	Min	Area Weighted Average
			(Feet)		
Coastal Beach Restoration (21,890 sf)	2030	5% (20-Year)	3.0	1.0	2.2

Return Period Recommendations for natural resource assets and subsequent projected values are provided as a consideration for users, not a formal standard. Users should follow industry best practices for designing natural resource assets in coordination with the appropriate regulatory agencies.

Projected Duration of Flooding: NOT APPLICABLE

Projected Design Flood Velocity: NOT APPLICABLE

Projected Scour & Erosion: APPLICABLE

Methodology to Estimate Projected Values

Extreme Precipitation

Target Planning Horizon: 2030

LIMITATIONS: The recommended Standards for Total Precipitation Depth & Peak Intensity are determined by the user drawn polygon and relationships as defined in the Supporting Documents. The projected Total Precipitation Depth values provided through the Tool are based on the climate projections developed by Cornell University as part of EEA's Massachusetts Climate and Hydrologic Risk Project, GIS-based data as of 10/15/21. For additional information on the methodology of these precipitation outputs, see Supporting Documents.

While Total Precipitation Depth & Peak Intensity for 24-hour Design Storms are useful to inform planning and design, it is recommended to also consider additional longer- and shorter-duration precipitation events and intensities in accordance with best practices. Longer-duration, lower-intensity storms allow time for infiltration and reduce the load on infrastructure over the duration of the storm. Shorter-duration, higher-intensity storms often have higher runoff volumes because the water does not have enough time to infiltrate infrastructure systems (e.g., catch basins) and may overflow or back up during such storms, resulting in flooding. In the Northeast, short-duration high intensity rain events are becoming more frequent, and there is often little early warning for these events, making it difficult to plan operationally. While the Tool does not provide recommended design standards for these scenarios, users should still consider both short- and long-duration precipitation events and how they may impact the asset.

The projected values, standards, and guidance provided within this Tool may be used to inform plans and designs, but they do not provide guarantees for future conditions or resilience. The projected values are not to be considered final or appropriate for construction documents without supporting engineering analyses. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence.

Applicable Design Criteria

Tiered Methodology: Tier 1

Projected Total Precipitation Depth & Peak Intensity for 24-hr Design Storms: APPLICABLE

Asset Name	Recommended Planning Horizon	Recommended Return Period (Design Storm)	Projected 24-hr Total Precipitation Depth (inches)	Step-by-Step Methodology for Peak Intensity
Coastal Beach Restoration (21,890 sf)	2030	25-Year (4%)	7.0	Downloadable Methodology PDF

Return Period Recommendations for natural resource assets and subsequent projected values are provided as a consideration for users, not a formal standard. Users should follow industry best practices for designing natural resource assets in coordination with the appropriate regulatory agencies.

ATTENTION: This is a Tier 1 project. It is advised to compare the extreme precipitation output values to the NOAA+ methodology to calculate total precipitation depth for 24-hr design storms.

This methodology can be found in the following PDF. (Link).

Projected Riverine Peak Discharge & Peak Flood Elevation: NOT APPLICABLE

Extreme Heat

Target Planning Horizon: 2030
Percentile: 50th Percentile

LIMITATIONS: The recommended standards are determined by the user-drawn polygon and relationships as defined in the supporting Section Documents. The guidance provided within this Tool may be used to inform plans and designs, but does not provide guarantees for resilience. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence. One avenue to seek more information would be to access the comprehensive temperature and precipitation projections including additional return periods, time horizons, and seasons at the Climate Projections Dashboard.

Applicable Design Criteria

Projected Annual/Summer/Winter Average Temperatures: APPLICABLE

Asset Name	Recommended Planning Horizon	Recommended Percentile	Projected Annual Average Temperature [°F]	Projected Summer Average Temperature [°F]	Projected Winter Average Temperature [°F]

Asset Name	Recommended Planning Horizon	Recommended Percentile	Projected Annual Average Temperature [°F]	Projected Summer Average Temperature [°F]	Projected Winter Average Temperature [°F]
Coastal Beach Restoration (21,890 sf)	2030	50th	54.00	73.20	34.21

LIMITATIONS: The recommended Standards for Projected Average Annual/Summer/Winter Temperature are determined by the user-drawn polygon and relationships as defined in the supporting Section Documents. The guidance provided within this Tool may be used to inform plans and designs, but is not comprehensive and does not provide guarantees for resilience. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence. One avenue to seek more information would be to access the comprehensive temperature and precipitation projections including additional return periods, time horizons, and seasons at the Climate Projections Dashboard.

Projected Growing Degree Days: NOT APPLICABLE

Projected Days Per Year With Max Temp > 95°F, >90°F, <32°F: NOT APPLICABLE

Projected Number of Heat Waves Per Year & Average Heat Wave Duration: NOT APPLICABLE

Projected Cooling Degree Days & Heating Degree Days (base = 65°F): NOT APPLICABLE

Projected Heat Index: NOT APPLICABLE

Asset: Revetment (1.5H:1V slope) Infrastructure

Sea Level Rise/Storm Surge High Risk

Target Planning Horizon: 2070
Intermediate Planning Horizon: 2050
Return Period: Not exposed to coastal flooding by 2070

LIMITATIONS: The recommended Climate Resilience Design Standards for the Sea Level Rise / Storm Surge Design Criteria are based on the user drawn polygon and relationships as defined in the Supporting Documents. The projected values provided through the Tool are based on the Massachusetts Coast Flood Risk Model (MC-FRM) outputs as of 9/13/2021, which included GIS-based data for three planning horizons (2030, 2050, 2070) and six return periods (0.1%, 0.2%, 0.5%, 1%, 2%, 5%). These values are projections based on assumptions as defined in the model and the LiDAR used at the time. For additional information on the MC-FRM, review the additional resources provided on the Start Here page.

The projected values, Standards, and Guidance provided within this Tool may be used to inform plans and designs, but they do not provide guarantees for future conditions or resilience. The projected values are not to be considered final or appropriate for construction documents without supporting engineering analyses. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence.

Applicable Design Criteria

Projected Tidal Datums: APPLICABLE
Note: The site is exposed to Sea Level Rise/Storm Surge, but projected Tidal Datums are not available within the site. Additional site-specific analyses are recommended to identify projected Tidal Datums for the recommended planning horizon. Consult a professional coastal engineer or modeler to estimate projected Tidal Datums based on the recommended Standards and additional outputs provided through this Tool.

Projected Water Surface Elevation: NOT APPLICABLE

Projected Wave Action Water Elevation: NOT APPLICABLE

Projected Wave Heights: NOT APPLICABLE

Projected Duration of Flooding: APPLICABLE
Methodology to Estimate Projected Values

Projected Design Flood Velocity: APPLICABLE
Methodology to Estimate Projected Values

Projected Scour & Erosion: APPLICABLE

Methodology to Estimate Projected Values

Extreme Precipitation Moderate Risk

Target Planning Horizon: 2070
Return Period: No Return Period

LIMITATIONS: The recommended Standards for Total Precipitation Depth & Peak Intensity are determined by the user drawn polygon and relationships as defined in the Supporting Documents. The projected Total Precipitation Depth values provided through the Tool are based on the climate projections developed by Cornell University as part of EEA's Massachusetts Climate and Hydrologic Risk Project, GIS-based data as of 10/15/21. For additional information on the methodology of these precipitation outputs, see Supporting Documents.

While Total Precipitation Depth & Peak Intensity for 24-hour Design Storms are useful to inform planning and design, it is recommended to also consider additional longer- and shorter-duration precipitation events and intensities in accordance with best practices. Longer-duration, lower-intensity storms allow time for infiltration and reduce the load on infrastructure over the duration of the storm. Shorter-duration, higher-intensity storms often have higher runoff volumes because the water does not have enough time to infiltrate infrastructure systems (e.g., catch basins) and may overflow or back up during such storms, resulting in flooding. In the Northeast, short-duration high intensity rain events are becoming more frequent, and there is often little early warning for these events, making it difficult to plan operationally. While the Tool does not provide recommended design standards for these scenarios, users should still consider both short- and long-duration precipitation events and how they may impact the asset.

The projected values, standards, and guidance provided within this Tool may be used to inform plans and designs, but they do not provide guarantees for future conditions or resilience. The projected values are not to be considered final or appropriate for construction documents without supporting engineering analyses. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence.

Applicable Design Criteria

Tiered Methodology: Tier 2

Projected Total Precipitation Depth & Peak Intensity for 24-hr Design Storms: APPLICABLE

Asset Name	Recommended Planning Horizon	Recommended Return Period (Design Storm)	Projected 24-hr Total Precipitation Depth (inches)	Step-by-Step Methodology for Peak Intensity
Revetment (1.5H:1V slope)	2070	No Return Period	N/A	Downloadable Methodology PDF

Projected Riverine Peak Discharge & Peak Flood Elevation: NOT APPLICABLE

Extreme Heat High Risk

Target Planning Horizon: 2070
Percentile: 50th Percentile

LIMITATIONS: The recommended standards are determined by the user-drawn polygon and relationships as defined in the supporting Section Documents. The guidance provided within this Tool may be used to inform plans and designs, but does not provide guarantees for resilience. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence. One avenue to seek more information would be to access the comprehensive temperature and precipitation projections including additional return periods, time horizons, and seasons at the Climate Projections Dashboard.

Applicable Design Criteria

Projected Annual/Summer/Winter Average Temperatures: APPLICABLE

LIMITATIONS: The recommended Standards for Projected Average Annual/Summer/Winter Temperature are determined by the user-drawn polygon and relationships as defined in the supporting Section Documents. The guidance provided within this Tool may be used to inform plans and designs, but is not comprehensive and does not provide guarantees for resilience. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence. One avenue to seek more information would be to access the comprehensive temperature and precipitation projections including additional return periods, time horizons, and seasons at the Climate Projections Dashboard.

Projected Growing Degree Days: NOT APPLICABLE

Projected Days Per Year With Max Temp > 95°F, >90°F, <32°F: APPLICABLE

LIMITATIONS: The recommended Standards for ProjectedÂ Days per Year with Max Temp >95Â°F, >90Â°F, <32Â°F are determined by the user-drawn polygon and relationships as defined in the supporting Section Documents. The guidance provided within this Tool may be used to inform plans and designs, but is not comprehensive and does not provide guarantees for resilience. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence. One avenue to seek more information would be to access the comprehensive temperature and precipitation projections including additional return periods, time horizons, and seasons at the Climate Projections Dashboard.

Projected Number of Heat Waves Per Year & Average Heat Wave Duration: APPLICABLE

LIMITATIONS: The recommended Standards for ProjectedÂ Number of Heat Waves Per Year and Average Heat Wave DurationÂ are determined by the user-drawn polygon and relationships as defined in the supporting Section Documents. The guidance provided within this Tool may be used to inform plans and designs, but is not comprehensive and does not provide guarantees for resilience. The guidance provided within this Tool is intended to be general and users are encouraged to do their own due diligence. One avenue to seek more information would be to access the comprehensive temperature and precipitation projections including additional return periods, time horizons, and seasons at the Climate Projections Dashboard.

Projected Cooling Degree Days & Heating Degree Days (base = 65°F): NOT APPLICABLE

Projected Heat Index: APPLICABLE
Methodology to Estimate Projected Values : Tier 2

Sea Level Rise/Storm Surge Project Maps

The following three maps illustrate the Projected Water Surface Elevation for the 2030, 2050, and 2070 planning horizons corresponding to the lowest return period (largest design storm) recommended across the assets identified for this project in the Tool. For projects that only have Natural Resource assets, the maps will show the Projected Water Surface Elevations corresponding to the 5% (20-year) return period. Refer to the Climate Resilience Design Standards Output - Sea Level Rise/Storm Surge Section for additional values associated with other assets. The maps include the project area as drawn by the user with a 0.1 mile minimum buffer, but do not reflect the location of specific assets on the site.

LIMITATIONS: The recommended Climate Resilience Design Standards for the Sea Level Rise / Storm Surge Design Criteria are based on the user drawn polygon and relationships as defined in the Supporting Documents. The projected values and maps provided through the Tool are based on the Massachusetts Coast Flood Risk Model (MC-FRM) outputs as of 9/13/2021, which included GIS-based data for three planning horizons (2030, 2050, 2070) and six return periods (0.1%, 0.2%, 0.5%, 1%, 2%, 5%). These values are projections based on assumptions as defined in the model and the LiDAR used at the time. For additional information on the MC-FRM, review the additional resources provided on the Start Here page.

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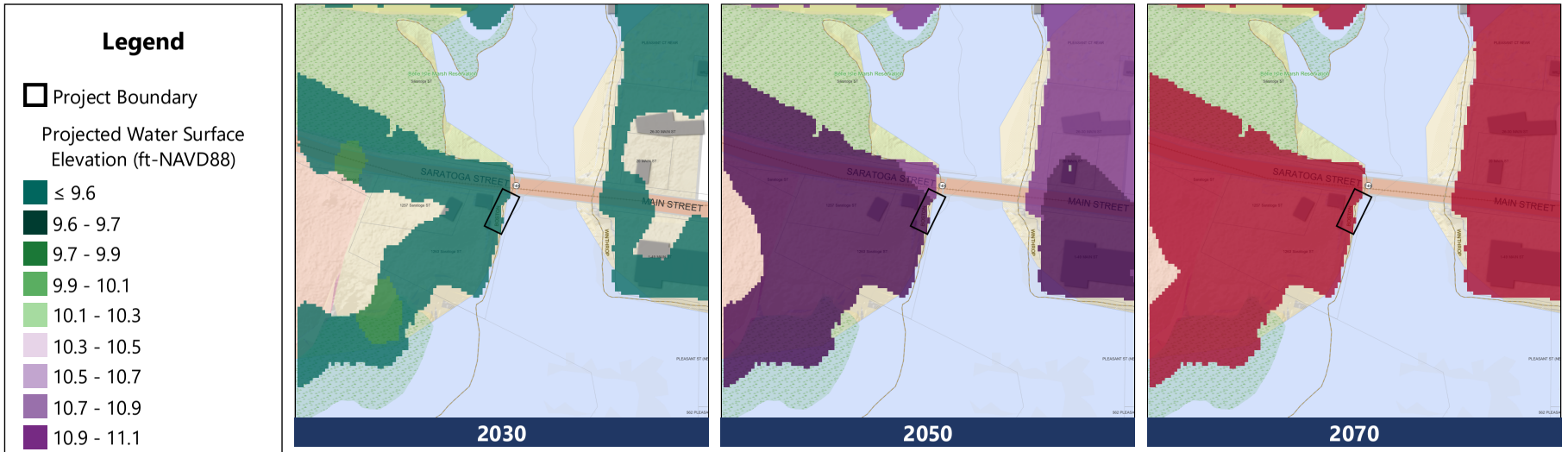


Climate Resilience Design Standards Tool:
Sea Level Rise/Storm Surge Design Criteria
Projected Water Surface Elevation Map: 5% (20-yr)

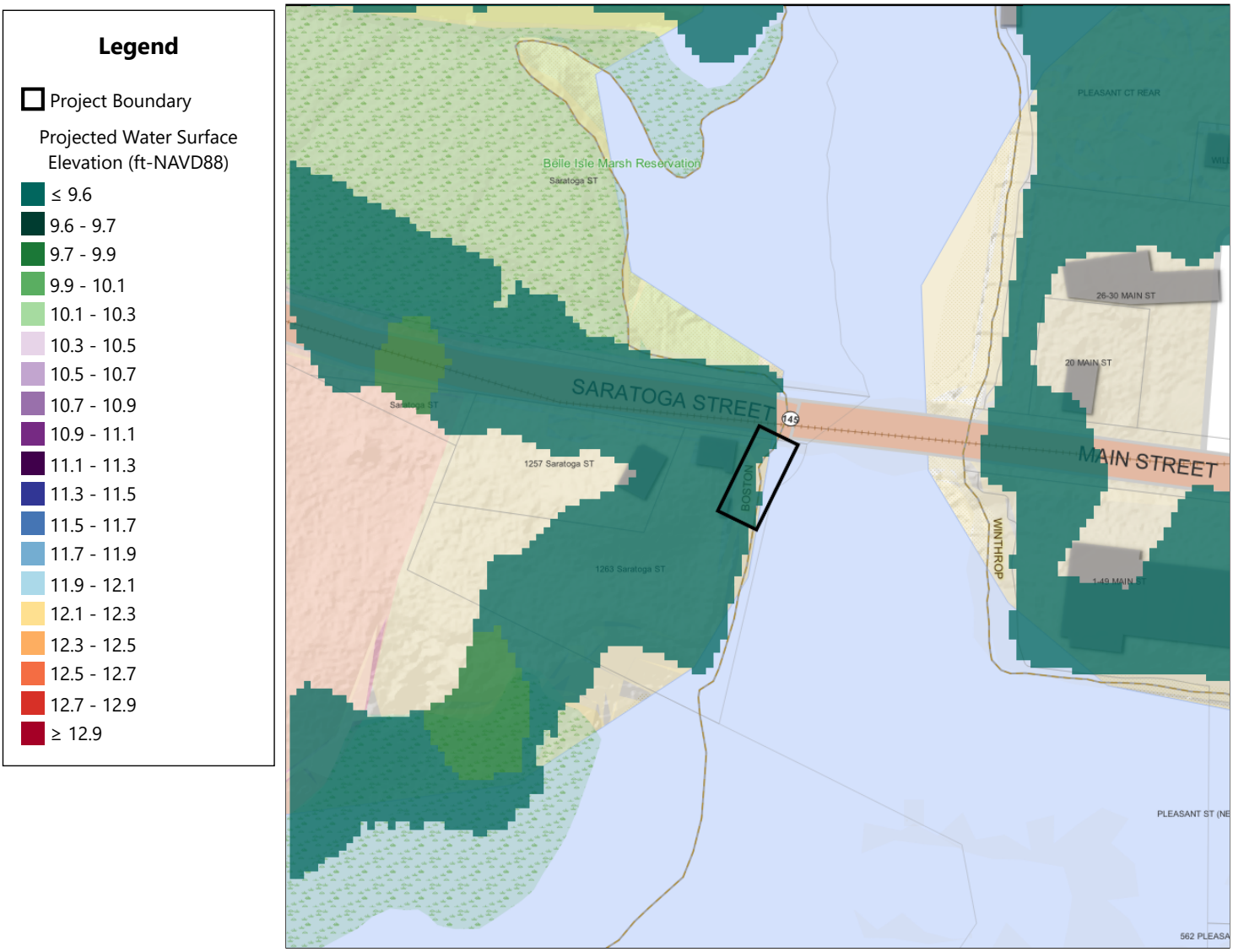
Project Name: Saratoga Street Shoreline Restoration
Location (Town): Boston

0.025 0.05 0.1 Miles

Created by: fvardy
Date Created: 1/28/2025
Tool Version: 1.4

N

Asset Name	Planning Horizon	Return Period	Max	Min	Area Weighted Average (ft-NAVD88)
Coastal Beach Restoration (21,890 sf)	2030	5% (20-yr)	9.6	9.6	9.6
	2050	5% (20-yr)	11.1	11.0	11.1
	2070	5% (20-yr)	12.9	12.9	12.9



Climate Resilience Design Standards Tool:
Sea Level Rise/Storm Surge Design Criteria
Projected Water Surface Elevation Map: 2030, 5% (20-yr)

Project Name: Saratoga Street Shoreline Restoration
Location (Town): Boston

0.01 0.025 0.05 Miles

Created by: fvardy
Date Created: 1/28/2025
Tool Version: 1.4

N

Asset Name	Planning Horizon	Return Period	Max	Min	Area Weighted Average
			(ft-NAVD88)		
Coastal Beach Restoration (21,890 sf)	2030	5% (20-yr)	9.6	9.6	9.6

Climate Resilience Design Standards Tool:
Sea Level Rise/Storm Surge Design Criteria
Projected Water Surface Elevation Map: 2050, 5% (20-yr)

Project Name: Saratoga Street Shoreline Restoration
Location (Town): Boston

0.01 0.025 0.05 Miles

Created by: fvardy
Date Created: 1/28/2025
Tool Version: 1.4

N

Asset Name	Planning Horizon	Return Period	Max	Min	Area Weighted Average (ft-NAVD88)
Coastal Beach Restoration (21,890 sf)	2050	5% (20-yr)	11.1	11.0	11.1

Climate Resilience Design Standards Tool:
Sea Level Rise/Storm Surge Design Criteria
Projected Water Surface Elevation Map: 2070, 5% (20-yr)

Project Name: Saratoga Street Shoreline Restoration
Location (Town): Boston

0.01 0.025 0.05 Miles

Created by: fvardy
Date Created: 1/28/2025
Tool Version: 1.4

N

Asset Name	Planning Horizon	Return Period	Max	Min	Area Weighted Average (ft-NAVD88)
Coastal Beach Restoration (21,890 sf)	2070	5% (20-yr)	12.9	12.9	12.9

Sea Level Rise/Storm Surge Project Maps

The following three maps illustrate the Projected Wave Action Water Elevation for the 2030, 2050, and 2070 planning horizons corresponding to the lowest return period (largest design storm) recommended across the assets identified for this project in the Tool. For projects that only have Natural Resource assets, the maps will show the Projected Wave Action Water Elevations corresponding to the 5% (20-year) return period. Refer to the Climate Resilience Design Standards Output - Sea Level Rise/Storm Surge Section for additional values associated with other assets. The maps include the project area as drawn by the user with a 0.1 mile minimum buffer, but do not reflect the location of specific assets on the site.

LIMITATIONS: The recommended Climate Resilience Design Standards for the Sea Level Rise / Storm Surge Design Criteria are based on the user drawn polygon and relationships as defined in the Supporting Documents. The projected values and maps provided through the Tool are based on the Massachusetts Coast Flood Risk Model (MC-FRM) outputs as of 9/13/2021, which included GIS-based data for three planning horizons (2030, 2050, 2070) and six return periods (0.1%, 0.2%, 0.5%, 1%, 2%, 5%). These values are projections based on assumptions as defined in the model and the LiDAR used at the time. For additional information on the MC-FRM, review the additional resources provided on the Start Here page.

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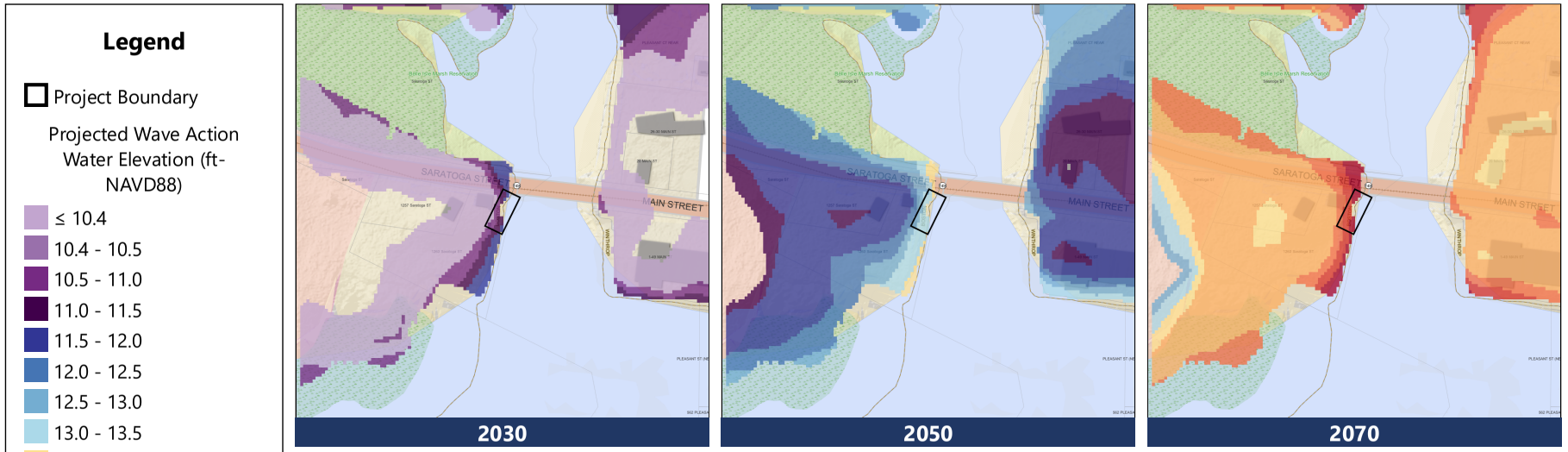


Climate Resilience Design Standards Tool:
Sea Level Rise/Storm Surge Design Criteria
Projected Wave Action Water Elevation Map: 5% (20-yr)

Project Name: Saratoga Street Shoreline Restoration
Location (Town): Boston

0.025 0.05 0.1 Miles

Created by: fvardy
Date Created: 1/28/2025
Tool Version: 1.4

N

Asset Name	Planning Horizon	Return Period	Max	Min	Area Weighted Average (ft-NAVD88)
Coastal Beach Restoration (21,890 sf)	2030	5% (20-yr)	11.5	10.4	10.9
	2050	5% (20-yr)	13.6	12.2	13.0
	2070	5% (20-yr)	15.5	14.8	15.3

Climate Resilience Design Standards Tool:
Sea Level Rise/Storm Surge Design Criteria
Projected Wave Action Water Elevation Map: 2030, 5% (20-yr)

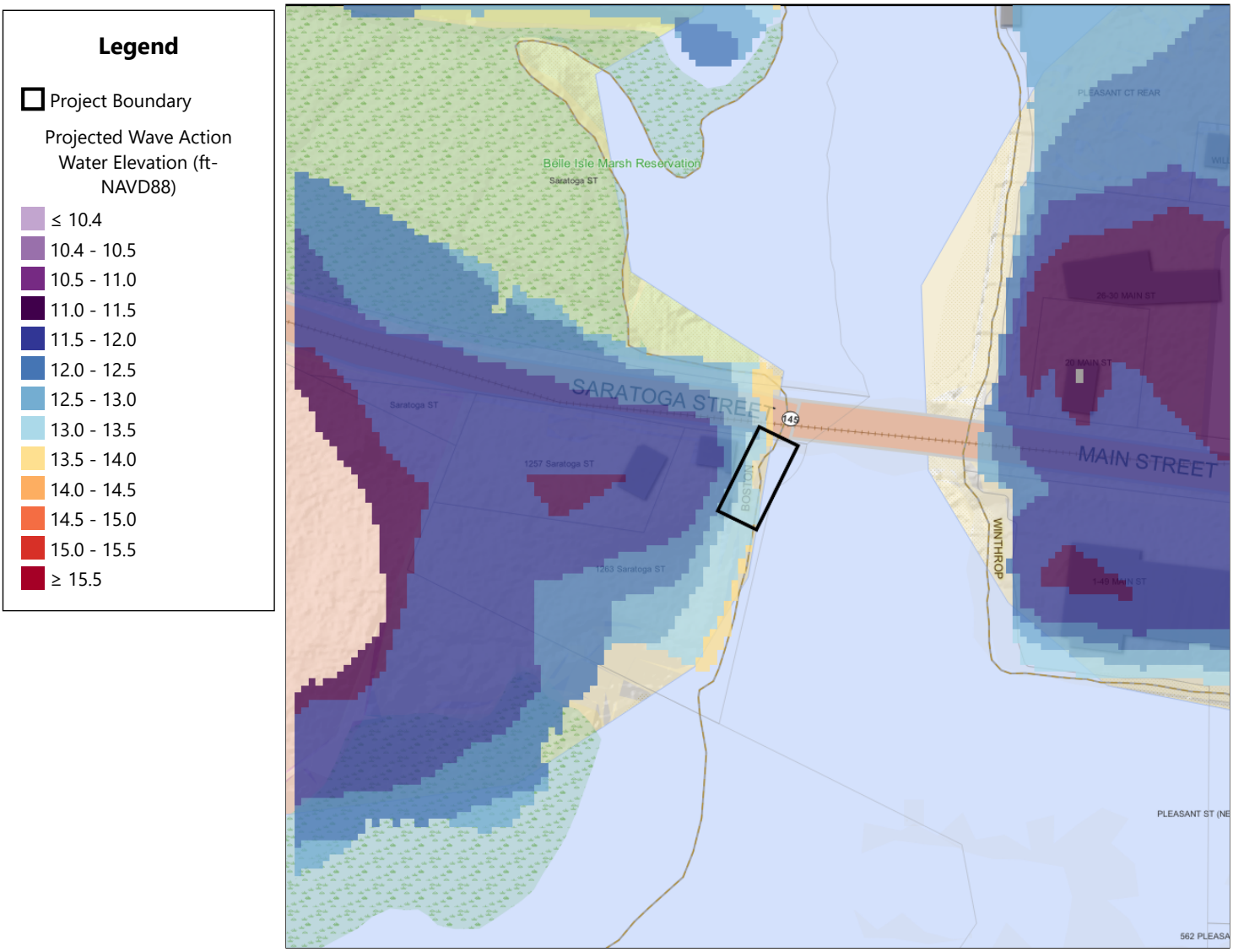
Project Name: Saratoga Street Shoreline Restoration
Location (Town): Boston

0.01 0.025 0.05 Miles

Created by: fvardy
Date Created: 1/28/2025
Tool Version: 1.4

N

Asset Name	Planning Horizon	Return Period	Max	Min	Area Weighted Average (ft-NAVD88)
Coastal Beach Restoration (21,890 sf)	2030	5% (20-yr)	11.5	10.4	10.9



Climate Resilience Design Standards Tool:
Sea Level Rise/Storm Surge Design Criteria
Projected Wave Action Water Elevation Map: 2050, 5% (20-yr)

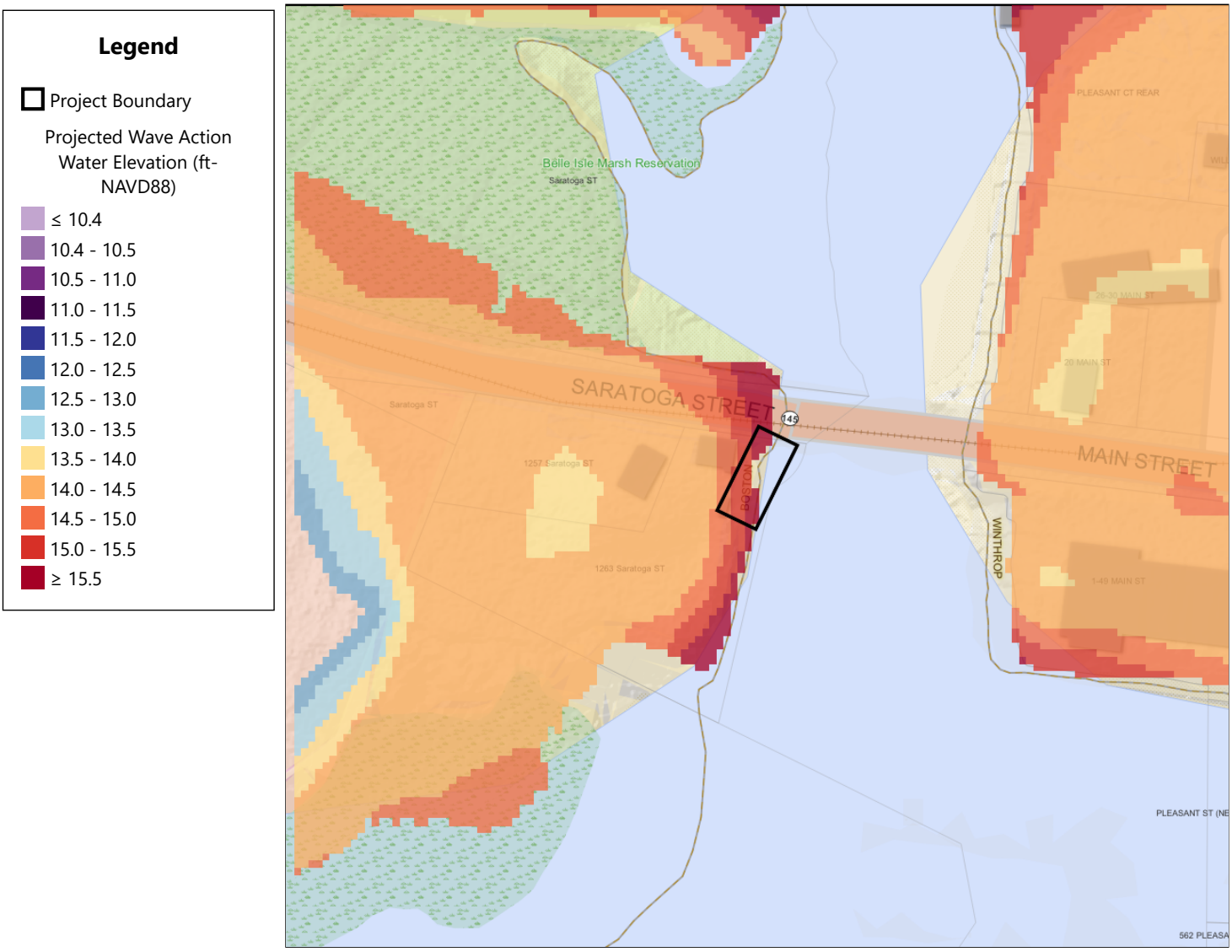
Project Name: Saratoga Street Shoreline Restoration
Location (Town): Boston

0.01 0.025 0.05 Miles

Created by: fvardy
Date Created: 1/28/2025
Tool Version: 1.4

N

Asset Name	Planning Horizon	Return Period	Max	Min	Area Weighted Average (ft-NAVD88)
Coastal Beach Restoration (21,890 sf)	2050	5% (20-yr)	13.6	12.2	13.0



Climate Resilience Design Standards Tool:
Sea Level Rise/Storm Surge Design Criteria
Projected Wave Action Water Elevation Map: 2070, 5% (20-yr)

Project Name: Saratoga Street Shoreline Restoration
Location (Town): Boston

0.01 0.025 0.05 Miles

Created by: fvardy
Date Created: 1/28/2025
Tool Version: 1.4

N

Asset Name	Planning Horizon	Return Period	Max	Min	Area Weighted Average (ft-NAVD88)
Coastal Beach Restoration (21,890 sf)	2070	5% (20-yr)	15.5	14.8	15.3

Project Inputs

Core Project Information

Name:	Saratoga Street Shoreline Restoration
Given the expected useful life of the project, through what year do you estimate the project to last (i.e. before a major reconstruction/renovation)?	2076
Location of Project:	Boston
Estimated Capital Cost:	$1,500,000
Who is the Submitting Entity?	Private Other Massachusetts Port Authority Chris Busch (cbusch@massport.com)
Is this project being submitted as part of a state grant application?	No
Which grant program?	
What stage are you in your project lifecycle?	Design
Is climate resiliency a core objective of this project?	Yes
Is this project being submitted as part of the state capital planning process?	No
Is this project being submitted as part of a regulatory review process or permitting?	Yes
Brief Project Description:	Massport proposes to remove the existing deteriorated piles and pier, stabilize the shoreline with a revetment, and establish approximately 21,890 square feet of resource area. The project aims to restore the site's shoreline by removing the deteriorated timber pier and bulkhead. It will focus on creating new coastal resource areas both within the former pier's footprint and landward of it. These measures will contribute to sustainable environmental management and enhance the site's and surrounding area's overall resilience. Massport is submitting the project to MEPA for review to assess its environmental impacts and mitigation measures.

Project Ecosystem Service Benefits

Factors Influencing Output

- ✓ Project provides flood protection through nature-based solutions
- ✓ Project reduces storm damage
- ✓ Project protects fisheries, wildlife, and plant habitat

Factors to Improve Output

- ✓ Incorporate nature-based solutions that improve water quality
- ✓ Preserve, enhance, and/or restore coastal shellfish habitats

Is the primary purpose of this project ecological restoration?

No

Project Benefits

Provides flood protection through nature-based solutions	Yes
Reduces storm damage	Yes
Recharges groundwater	No
Protects public water supply	No
Filters stormwater using green infrastructure	No
Improves water quality	Maybe
Promotes decarbonization	No
Enables carbon sequestration	No
Provides oxygen production	No
Improves air quality	No
Prevents pollution	No
Remediates existing sources of pollution	No
Protects fisheries, wildlife, and plant habitat	Yes
Protects land containing shellfish	Maybe
Provides pollinator habitat	No
Provides recreation	No
Provides cultural resources/education	No

Project Climate Hazard Exposure

Is the primary purpose of this project ecological restoration?	No
Does the project site have a history of coastal flooding?	Yes
Does the project site have a history of flooding during extreme precipitation events (unrelated to water/sewer damages)?	Unsure
Does the project site have a history of riverine flooding?	No
Does the project result in a net increase in impervious area of the site?	No

Are existing trees being removed as part of the proposed project?	No

Project Assets

Asset: Coastal Beach Restoration (21,890 sf)
Asset Type: Coastal Resource Area
Asset Sub-Type: Coastal beach
Construction Type: Restoration or enhancement
Construction Year: 2026
Monitoring Frequency: 1
Asset: Revetment (1.5H:1V slope)
Asset Type: Other
Asset Sub-Type: Other
Construction Type: New Construction
Construction Year: 2026
Useful Life: 50

Identify the length of time the asset can be inaccessible/inoperable without significant consequences.
Infrastructure may be inaccessible/inoperable more than a week after natural hazard event without consequences.

Identify the geographic area directly affected by permanent loss or significant inoperability of the infrastructure.
Impacts limited to location of infrastructure only

Identify the population directly served that would be affected by the permanent loss or significant inoperability of the infrastructure.
Less than 5,000 people

Identify if the infrastructure provides services to populations that reside within Environmental Justice neighborhoods or climate vulnerable populations.
The infrastructure does not provide services to populations that reside within Environmental Justice neighborhoods or climate vulnerable populations.

Will the infrastructure reduce the risk of flooding?
Yes

If the infrastructure became inoperable for longer than acceptable in Question 1, how, if at all, would it be expected to impact people's health and safety?
Inoperability of the infrastructure would not be expected to result in injuries

If there are hazardous materials in your infrastructure, what are the extents of impacts related to spills/releases of these materials?
There are no hazardous materials in the infrastructure

If the infrastructure became inoperable for longer than acceptable in Question 1, what are the impacts on other facilities, assets, and/or infrastructure?
Minor – Inoperability will not likely affect other facilities, assets, or buildings

If the infrastructure was damaged beyond repair, how much would it approximately cost to replace?
Less than $10 million

Does the infrastructure function as an evacuation route during emergencies? This question only applies to roadway projects.
No

If the infrastructure became inoperable for longer than acceptable in Question 1, what are the environmental impacts related to natural resources?
No impact on surrounding natural resources is expected

If the infrastructure became inoperable for longer than acceptable in Question 1, what are the impacts to government services (i.e. the infrastructure is not able to serve or operate its intended users or function)?
Loss of infrastructure is not expected to reduce the ability to maintain government services

What are the impacts to loss of confidence in government resulting from loss of infrastructure functionality (i.e. the infrastructure asset is not able to serve or operate its intended users or function)?
No Impact

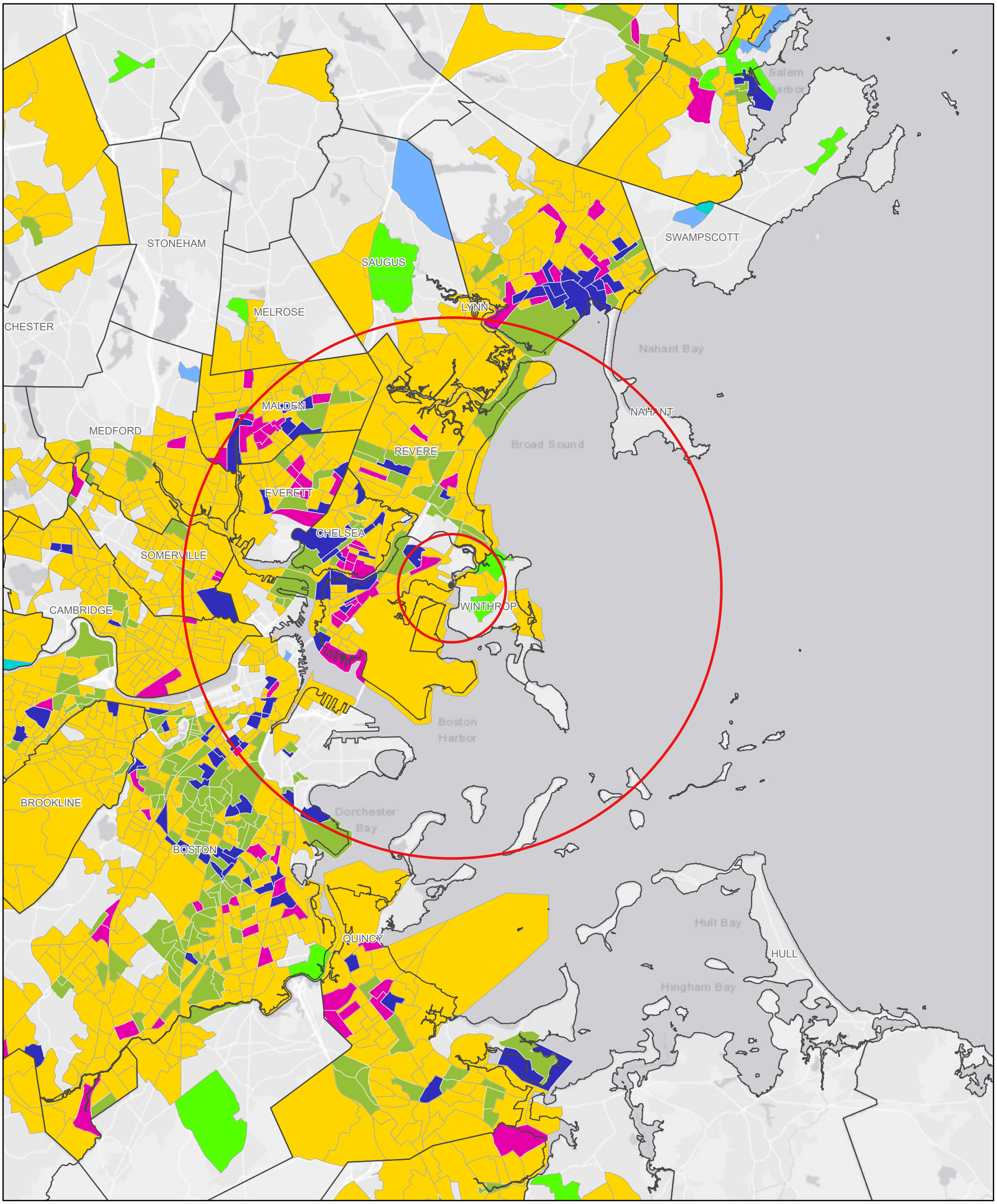
Report Comments

N/A

Attachment H

Environmental Justice Supporting Documentation

2020 Environmental Justice Neighborhoods



10/31/2025, 11:59:16 AM

Override 1

MA 2020 Environmental Justice Block Groups

- Minority: the block group minority population is >= 40%, or the block group minority population is >= 25% and the median household income of the municipality the block group is in is < 150% of the Massachusetts median household income
- Income: the block group median household income is 65% or less than the state median household income
- Language isolation: 25% or more of households do not include anyone older than 14 who speaks English very well
- Minority and Income
- Minority and English isolation
- Income and English isolation
- Minority, Income and English isolation

1:144,448

0 1.25 2.5 5 mi

0 2 4 8 km

City of Boston, MassGIS, Esri, HERE, Garmin, USGS, EPA, NPS

MassGIS, MassDOT - Highway Division, MassDEP, MWRA | EEA GIS | City of Boston, MassGIS, Esri, HERE, Garmin, USGS, EPA, NPS |

5 Mile Radius		
Block Group 3	Census Tract 2058	Minority and English isolation
Block Group 2	Census Tract 2081.01	Minority
Block Group 4	Census Tract 2081.01	Minority
Block Group 4	Census Tract 2081.02	Minority
Block Group 1	Census Tract 2072	Minority and income
Block Group 3	Census Tract 2081.01	Minority
Block Group 1	Census Tract 2081.02	Minority
Block Group 2	Census Tract 2081.02	Minority
Block Group 3	Census Tract 2081.02	Minority
Block Group 2	Census Tract 2084.02	Minority
Block Group 2	Census Tract 3424.02	Minority
Block Group 3	Census Tract 3513	Minority
Block Group 2	Census Tract 3513	Minority
Block Group 3	Census Tract 3514.03	Minority
Block Group 2	Census Tract 3514.04	Minority and income
Block Group 1	Census Tract 3515	Minority
Block Group 2	Census Tract 3515	Minority
Block Group 3	Census Tract 3515	Minority
Block Group 1	Census Tract 3514.03	Minority and English isolation
Block Group 2	Census Tract 3514.03	Minority
Block Group 4	Census Tract 3514.03	Minority
Block Group 5	Census Tract 3514.03	Minority and English isolation
Block Group 2	Census Tract 3521.01	Minority
Block Group 2	Census Tract 3531.02	Minority
Block Group 1	Census Tract 3521.02	Minority
Block Group 1	Census Tract 3523	Minority
Block Group 1	Census Tract 3514.04	Minority
Block Group 3	Census Tract 3514.04	Minority
Block Group 4	Census Tract 3514.04	Minority
Block Group 4	Census Tract 3515	Minority, income and English isolation
Block Group 1	Census Tract 3521.01	Minority
Block Group 3	Census Tract 3521.01	Minority
Block Group 2	Census Tract 3523	Minority
Block Group 1	Census Tract 3522	Minority
Block Group 2	Census Tract 3526	Minority
Block Group 2	Census Tract 3521.02	Minority
Block Group 3	Census Tract 3523	Minority
Block Group 1	Census Tract 3524	Minority
Block Group 1	Census Tract 3526	Minority
Block Group 2	Census Tract 3527	Minority and English isolation
Block Group 1	Census Tract 3531.02	Minority
Block Group 1	Census Tract 3416	Minority
Block Group 5	Census Tract 3416	Minority
Block Group 2	Census Tract 3417	Minority
Block Group 4	Census Tract 3417	Minority and income
Block Group 5	Census Tract 3417	Minority
Block Group 4	Census Tract 3415	Minority
Block Group 3	Census Tract 3416	Minority
Block Group 4	Census Tract 3416	Minority
Block Group 6	Census Tract 3416	Minority
Block Group 2	Census Tract 3398.04	Minority
Block Group 3	Census Tract 3417	Minority
Block Group 2	Census Tract 3416	Minority
Block Group 1	Census Tract 3417	Minority
Block Group 1	Census Tract 3418	Minority and English isolation
Block Group 2	Census Tract 3418	Minority and income
Block Group 3	Census Tract 3418	Minority
Block Group 4	Census Tract 3418	Minority, income and English isolation
Block Group 5	Census Tract 3418	Minority, income and English isolation
Block Group 6	Census Tract 3418	Minority, income and English isolation
Block Group 3	Census Tract 3422.02	Minority
Block Group 1	Census Tract 3423.01	Minority
Block Group 2	Census Tract 3423.01	Minority
Block Group 2	Census Tract 3423.02	Minority
Block Group 1	Census Tract 3424.01	Minority

1 Mile Radius		
Block Group 1	Census Tract 9813	Minority
Block Group 1	Census Tract 1708	Minority
Block Group 4	Census Tract 1801.01	Minority
Block Group 1	Census Tract 1802	Minority
Block Group 2	Census Tract 1802	Income
Block Group 3	Census Tract 1802	Income
Block Group 1	Census Tract 510	Minority
Block Group 2	Census Tract 510	Minority and income
Block Group 1	Census Tract 511.01	Minority and English isolation
Block Group 3	Census Tract 511.01	Minority
Block Group 4	Census Tract 511.01	Minority
Block Group 2	Census Tract 511.01	Minority, income and English isolation
Block Group 4	Census Tract 1708	Minority
Block Group 3	Census Tract 1801.01	Income
Block Group 3	Census Tract 1708	Minority and income
Block Group 1	Census Tract 1707.01	Minority and income

Block Group 3	Census Tract 3424.01	Minority
Block Group 1	Census Tract 3421.01	Minority and income
Block Group 3	Census Tract 3421.01	Minority, income and English isolation
Block Group 2	Census Tract 3421.02	Minority
Block Group 3	Census Tract 3422.01	Minority and English isolation
Block Group 4	Census Tract 3422.01	Minority
Block Group 1	Census Tract 3501.06	Minority
Block Group 1	Census Tract 3501.07	Minority
Block Group 1	Census Tract 3501.08	Minority and income
Block Group 1	Census Tract 3398.02	Minority
Block Group 4	Census Tract 3398.02	Minority
Block Group 1	Census Tract 3398.04	Minority
Block Group 1	Census Tract 3501.09	Minority
Block Group 1	Census Tract 3502.01	Minority
Block Group 2	Census Tract 3502.01	Minority
Block Group 3	Census Tract 3502.01	Minority
Block Group 1	Census Tract 3398.03	Minority
Block Group 2	Census Tract 3398.03	Minority
Block Group 3	Census Tract 3398.04	Minority
Block Group 2	Census Tract 3422.02	Minority
Block Group 3	Census Tract 3423.02	Minority
Block Group 2	Census Tract 3425.01	Minority and income
Block Group 2	Census Tract 3424.01	Minority, income and English isolation
Block Group 2	Census Tract 3419.01	Minority
Block Group 1	Census Tract 3419.03	Minority
Block Group 2	Census Tract 3419.03	Minority
Block Group 1	Census Tract 3419.04	Minority
Block Group 1	Census Tract 3424.02	Minority
Block Group 3	Census Tract 3424.02	Minority and English isolation
Block Group 1	Census Tract 3425.01	Minority and English isolation
Block Group 1	Census Tract 3425.02	Minority and English isolation
Block Group 1	Census Tract 3412	Minority
Block Group 2	Census Tract 3412	Minority and English isolation
Block Group 1	Census Tract 3413.01	Minority, income and English isolation
Block Group 2	Census Tract 3413.01	Minority and English isolation
Block Group 2	Census Tract 3419.04	Minority and income
Block Group 2	Census Tract 3421.01	Minority
Block Group 4	Census Tract 3421.01	Minority and English isolation
Block Group 1	Census Tract 3421.02	Minority
Block Group 3	Census Tract 3413.01	Minority and income
Block Group 4	Census Tract 3413.01	Minority and English isolation
Block Group 1	Census Tract 3415	Minority
Block Group 1	Census Tract 3419.01	Minority
Block Group 3	Census Tract 3419.03	Minority
Block Group 1	Census Tract 3423.02	Minority
Block Group 3	Census Tract 3419.04	Minority and income
Block Group 3	Census Tract 3415	Minority
Block Group 1	Census Tract 3414	Minority and English isolation
Block Group 2	Census Tract 3414	Minority and English isolation
Block Group 2	Census Tract 3425.02	Minority
Block Group 1	Census Tract 3426	Minority
Block Group 2	Census Tract 3426	Minority, income and English isolation
Block Group 3	Census Tract 3426	Minority
Block Group 1	Census Tract 3501.05	Minority
Block Group 3	Census Tract 3414	Minority
Block Group 4	Census Tract 3414	Minority
Block Group 2	Census Tract 3415	Minority and English isolation
Block Group 5	Census Tract 3414	Minority
Block Group 5	Census Tract 3415	Minority and English isolation
Block Group 3	Census Tract 3421.02	Minority
Block Group 4	Census Tract 3421.02	Minority
Block Group 1	Census Tract 3422.01	Minority and income
Block Group 2	Census Tract 3422.01	Minority and English isolation
Block Group 1	Census Tract 3422.02	Minority and income
Block Group 1	Census Tract 9813	Minority
Block Group 3	Census Tract 1605.01	Minority

Block Group 4	Census Tract 1605.01	Minority, income and English isolation
Block Group 5	Census Tract 1605.01	Minority and income
Block Group 1	Census Tract 1605.02	Minority, income and English isolation
Block Group 3	Census Tract 1605.02	Minority
Block Group 4	Census Tract 1605.02	Minority, income and English isolation
Block Group 5	Census Tract 1605.02	Minority
Block Group 3	Census Tract 1606.01	Minority
Block Group 4	Census Tract 1606.01	Minority
Block Group 2	Census Tract 1606.02	Minority
Block Group 2	Census Tract 1603	Minority and income
Block Group 1	Census Tract 1604	Minority, income and English isolation
Block Group 2	Census Tract 1604	Minority, income and English isolation
Block Group 1	Census Tract 1606.01	Minority and income
Block Group 2	Census Tract 1606.01	Minority
Block Group 2	Census Tract 1704	Minority and income
Block Group 3	Census Tract 1704	Minority and income
Block Group 4	Census Tract 1704	Minority and English isolation
Block Group 1	Census Tract 1705.02	Minority
Block Group 1	Census Tract 1606.02	Minority
Block Group 4	Census Tract 1606.02	Minority, income and English isolation
Block Group 5	Census Tract 1606.02	Minority
Block Group 1	Census Tract 1701.01	Minority
Block Group 2	Census Tract 1701.01	Minority
Block Group 3	Census Tract 1701.01	Minority
Block Group 1	Census Tract 1701.02	Minority and English isolation
Block Group 2	Census Tract 1701.02	Minority
Block Group 3	Census Tract 1701.02	Minority
Block Group 4	Census Tract 1701.02	Minority and income
Block Group 1	Census Tract 1702	Minority and income
Block Group 2	Census Tract 1702	Minority, income and English isolation
Block Group 4	Census Tract 1702	Minority and income
Block Group 1	Census Tract 1706.01	Minority
Block Group 3	Census Tract 1706.01	Minority
Block Group 4	Census Tract 1706.01	Minority and income
Block Group 3	Census Tract 1707.02	Minority and income
Block Group 1	Census Tract 1703.01	Minority
Block Group 2	Census Tract 1703.01	Minority
Block Group 3	Census Tract 1703.01	Minority
Block Group 4	Census Tract 1703.01	Minority
Block Group 1	Census Tract 1703.02	Minority
Block Group 2	Census Tract 1703.02	Minority
Block Group 3	Census Tract 1703.02	Minority
Block Group 5	Census Tract 1704	Minority
Block Group 2	Census Tract 1705.02	Minority and income
Block Group 3	Census Tract 1705.02	Minority and income
Block Group 1	Census Tract 1705.03	Minority
Block Group 1	Census Tract 1705.04	Minority
Block Group 2	Census Tract 1705.04	Minority
Block Group 2	Census Tract 1706.01	Minority
Block Group 1	Census Tract 1601.02	Minority and English isolation
Block Group 2	Census Tract 1601.02	Minority and English isolation
Block Group 3	Census Tract 1601.02	Minority
Block Group 2	Census Tract 1707.01	Minority
Block Group 1	Census Tract 1707.02	Minority, income and English isolation
Block Group 2	Census Tract 1707.02	Minority and income
Block Group 4	Census Tract 1707.02	Minority and English isolation
Block Group 3	Census Tract 1606.02	Minority
Block Group 3	Census Tract 1702	Minority and income
Block Group 1	Census Tract 1704	Minority
Block Group 4	Census Tract 1601.02	Minority, income and English isolation
Block Group 1	Census Tract 1601.03	Minority and English isolation
Block Group 2	Census Tract 1601.03	Minority and English isolation
Block Group 3	Census Tract 1601.03	Minority
Block Group 4	Census Tract 1601.03	Minority and English isolation
Block Group 1	Census Tract 1602	Minority and English isolation
Block Group 2	Census Tract 1602	Minority, income and English isolation

Block Group 3	Census Tract 1602	Minority and English isolation
Block Group 1	Census Tract 1708	Minority
Block Group 4	Census Tract 1801.01	Minority
Block Group 1	Census Tract 1802	Minority
Block Group 2	Census Tract 1802	Income
Block Group 4	Census Tract 1602	Minority and income
Block Group 1	Census Tract 1603	Minority
Block Group 3	Census Tract 1604	Minority
Block Group 4	Census Tract 1604	Minority and income
Block Group 1	Census Tract 1605.01	Minority
Block Group 2	Census Tract 1605.01	Minority and income
Block Group 3	Census Tract 1802	Income
Block Group 1	Census Tract 1805	Minority
Block Group 3	Census Tract 1805	Minority
Block Group 1	Census Tract 712.01	Minority
Block Group 1	Census Tract 501.01	Minority
Block Group 3	Census Tract 501.01	Minority
Block Group 2	Census Tract 408.01	Minority and income
Block Group 3	Census Tract 502	Minority, income and English isolation
Block Group 1	Census Tract 503	Minority
Block Group 2	Census Tract 503	Minority and income
Block Group 1	Census Tract 504	Minority
Block Group 1	Census Tract 606.04	Minority
Block Group 3	Census Tract 610	Minority and income
Block Group 2	Census Tract 611.01	Minority, income and English isolation
Block Group 1	Census Tract 611.01	Minority and income
Block Group 1	Census Tract 505	Minority
Block Group 1	Census Tract 506	Minority and English isolation
Block Group 2	Census Tract 506	Minority
Block Group 1	Census Tract 507	Minority and English isolation
Block Group 2	Census Tract 507	Minority, income and English isolation
Block Group 3	Census Tract 509.01	Minority, income and English isolation
Block Group 1	Census Tract 701.04	Minority
Block Group 1	Census Tract 510	Minority
Block Group 3	Census Tract 507	Minority and English isolation
Block Group 1	Census Tract 509.01	Minority and English isolation
Block Group 2	Census Tract 509.01	Minority
Block Group 2	Census Tract 701.04	Minority
Block Group 3	Census Tract 701.04	Minority and English isolation
Block Group 1	Census Tract 701.02	Minority, income and English isolation
Block Group 3	Census Tract 711.01	Minority and English isolation
Block Group 3	Census Tract 703.02	Minority
Block Group 1	Census Tract 106	Minority
Block Group 2	Census Tract 106	Minority
Block Group 3	Census Tract 106	Minority
Block Group 1	Census Tract 107.01	Minority
Block Group 1	Census Tract 108.01	Minority
Block Group 1	Census Tract 202	Minority
Block Group 2	Census Tract 202	Minority
Block Group 2	Census Tract 510	Minority and income
Block Group 3	Census Tract 510	Minority
Block Group 1	Census Tract 511.01	Minority and English isolation
Block Group 3	Census Tract 511.01	Minority
Block Group 1	Census Tract 203.01	Minority
Block Group 1	Census Tract 203.04	Minority
Block Group 2	Census Tract 203.05	Minority
Block Group 4	Census Tract 511.01	Minority
Block Group 2	Census Tract 606.04	Minority
Block Group 1	Census Tract 607	Minority and income
Block Group 2	Census Tract 607	Minority, income and English isolation
Block Group 2	Census Tract 610	Minority and income
Block Group 1	Census Tract 303.02	Minority
Block Group 1	Census Tract 402	Minority and income
Block Group 2	Census Tract 402	Minority
Block Group 1	Census Tract 403	Minority
Block Group 1	Census Tract 612.03	Minority

Block Group 2	Census Tract 701.02	Minority
Block Group 3	Census Tract 701.02	Minority
Block Group 1	Census Tract 701.03	Minority
Block Group 1	Census Tract 702.01	Minority, income and English isolation
Block Group 2	Census Tract 909.01	Minority and income
Block Group 2	Census Tract 702.01	Minority
Block Group 1	Census Tract 702.02	Minority, income and English isolation
Block Group 2	Census Tract 702.02	Minority, income and English isolation
Block Group 2	Census Tract 703.01	Minority
Block Group 1	Census Tract 703.02	Minority
Block Group 2	Census Tract 704.02	Minority, income and English isolation
Block Group 2	Census Tract 705.01	Minority
Block Group 1	Census Tract 705.02	Minority
Block Group 1	Census Tract 711.01	Minority
Block Group 4	Census Tract 711.01	Minority
Block Group 2	Census Tract 712.01	Minority and income
Block Group 3	Census Tract 712.01	Minority
Block Group 4	Census Tract 712.01	Minority, income and English isolation
Block Group 1	Census Tract 704.02	Minority
Block Group 2	Census Tract 705.02	Minority, income and English isolation
Block Group 1	Census Tract 707	Minority and income
Block Group 2	Census Tract 707	Minority
Block Group 1	Census Tract 801	Minority and income
Block Group 2	Census Tract 203.04	Minority
Block Group 3	Census Tract 304	English isolation
Block Group 1	Census Tract 907	Minority
Block Group 4	Census Tract 907	Minority
Block Group 1	Census Tract 203.05	Minority
Block Group 1	Census Tract 404.01	Minority
Block Group 2	Census Tract 511.01	Minority, income and English isolation
Block Group 1	Census Tract 909.01	Minority, income and English isolation
Block Group 1	Census Tract 406	Minority
Block Group 2	Census Tract 501.01	Minority, income and English isolation
Block Group 1	Census Tract 502	Minority
Block Group 2	Census Tract 502	Minority
Block Group 4	Census Tract 502	Minority and English isolation
Block Group 3	Census Tract 503	Minority, income and English isolation
Block Group 2	Census Tract 504	Minority
Block Group 1	Census Tract 408.01	Minority and income
Block Group 1	Census Tract 512	Minority and English isolation
Block Group 2	Census Tract 512	Minority
Block Group 3	Census Tract 512	Minority
Block Group 4	Census Tract 1708	Minority
Block Group 3	Census Tract 1801.01	Income
Block Group 5	Census Tract 1707.02	Minority
Block Group 2	Census Tract 1708	Minority and income
Block Group 3	Census Tract 1708	Minority and income
Block Group 1	Census Tract 1707.01	Minority and income

Project-Specific EJ Refence List

Populate this Project-Specific Reference List with the appropriate contacts from all 4 tabs in the EJ Reference List workbook

Project Name: Saratoga Street Shoreline Restoration Project

Project Address: 1257-1263 Saratoga Street

MA Municipalities in Project's DGA: East Boston / Winthrop / Revere

Date Generated: 10/29/2025

Filing Type:

☑ ENF/EENF ☐ DEIR/FEIR ☐ SEIR ☐ Other

First Name	Last Name	Title	Phone	Email	Affiliation
Claire	B.W. Muller	Movement Building Director	(508) 308-9261	claire@uumassaction.org	Unitarian Universalist Mass Action Network
Julia	Blatt	Executive Director	(617) 714-4272	juliablatt@massriversalliance.org	Mass Rivers Alliance
Jodi	Valenta	Massachusetts State Director	(617) 367-6200	Jodi.Valenta@tpl.org	The Trust for Public Land
Kerry	Bowie	Board President	Not Provided	kerry@msaadapartners.com	Browning the GreenSpace
Sylvia	Broude	Executive Director	(617) 292-4821	sylvia@communityactionworks.org	Community Action Works
Britteny	Jenkins	Vice President	Not Provided	Bjenkins@clf.org	Conservation Law Foundation
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Breanne	Frank	Associate Attorney	Not Provided	bfrank@clf.org	Conservation Law Foundation
Amy	Boyd Rabin	Vice President of Policy	(617) 221-8258	aboydrabin@environmentalleague.org	Environmental League of Massachusetts
Ben	Hellerstein	MA State Director	(617) 747-4368	ben@environmentmassachusetts.org	Environment Massachusetts
Robb	Johnson	Executive Director	(978) 443-2233	robb@massland.org	Mass Land Trust Coalition
Cindy	Luppi	New England Director	(617) 338-8131 x208	cluppi@cleanwater.org	Clean Water Action
Dálida	Rocha	Executive Director	Not Provided	dalida@n2nma.org	Neighbor to Neighbor Mass.
Lezlie Braxton	Campbell	Deputy Director	(413) 645-0055	braxton@n2nma.org	Neighbor to Neighbor Mass.
Lena	Entin	Director of Individual Giving	Not Provided	lena@n2nma.org	Neighbor to Neighbor Mass.
Danny	Timpona	Organizing Director	Not Provided	danny@n2nma.org	Neighbor to Neighbor Mass.
Miles	Gresham	Campaign Director	Not Provided	miles@n2nma.org	Neighbor to Neighbor Mass.
Rob	Moir	Executive Director	Not Provided	rob@oceanriver.org	Ocean River Institute
Vickash	Mohanka	Director, MA Chapter	Not Provided	vick.mohanka@sierraclub.org	Sierra Club MA
Heidi	Ricci	Director of Policy	Not Provided	hricci@massaudubon.org	Mass Audubon
Bettina	Washington	Tribal Historic Preservation Officer	(508) 560-9014	thpo@wampanoagtribe-nsn.gov	Wampanoag Tribe of Gay Head (Aquinnah)
Brian	Weeden	Chair	(774) 413-0520	Brian.Weeden@mwtribe-nsn.gov	Mashpee Wampanoag Tribe
Nakia	Hendricks Jr.	Office Manager	Not Provided	106Review@mwtribe-nsn.gov	Mashpee Wampanoag Tribe
David	Weeden	THPO/Director	(774) 327.0068	David.Weeden@mwtribe-nsn.gov	Mashpee Wampanoag Tribe
Alma	Gordon	President	Not Provided	tribalcouncil@chappaquiddickwampanoag.org	Chappaquiddick Tribe of the Wampanoag Nation
Cheryll	Toney Holley	Chair	(774) 317-9138	crwritings@gmail.com	Nipmuc Nation (Hassanamisco Nipmucs)
John	Peters, Jr.	Executive Director	(617) 573-1292	john.peters@mass.gov	Massachusetts Commission on Indian Affairs (MCIA)
Melissa	Ferretti	Chair	(508) 304-5023	melissa@herringpondtribe.org	Herring Pond Wampanoag Tribe
Patricia	D. Rocker	Council Chair	Not Provided	rockerpatriciad@verizon.net	Chappaquiddick Tribe of the Wampanoag Nation, Whale Clan
Raquel	Halsey	Executive Director	(617) 232-0343	rhalsey@naicob.org	North American Indian Center of Boston
Cora	Pierce	Not Provided	Not Provided	Coradot@yahoo.com	Pocassett Wampanoag Tribe
Elizabeth	Solomon	Not Provided	Not Provided	Solomon.Elizabeth@gmail.com	Massachusetts Tribe at Ponkapoag
Patrick	Herron	Executive Director	Not Provided	Patrick.Herron@mysticriver.org	Mystic River Watershed Association
Karl	Alexander	Greenways Program Manager	Not Provided	karl.alexander@mysticriver.org	Mystic River Watershed Association
Marissa	Zampino	Community Organizer	Not Provided	marissa.zampino@mysticriver.org	Mystic River Watershed Association
Chris	Marchi	Vice President	Not Provided	cbmarchi@gmail.com	Air, Inc.
Joy	Gary	Executive Director	(617) 825-3846	joy@bostonfarms.org	Boston Farms Community Land Trust
Kelly	Sherman	Manager of Waterfront Design	Not Provided	KSherman@BostonHarborNow.Org	Boston Harbor Now
Lydia	Lowe	Executive Director	(617) 259-1503	lydia@chinatownclt.org	Chinatown Community Land Trust
Karen	Chen	Executive Director	(617) 357-4499	karen@cpaboston.org	Chinese Progressive Association
Lee	Matsueda	Executive Director	(617) 723-2639	lee@massclu.org	Mass Community Labor United
Noemi	Mimi Ramos	Executive Director	Not Provided	mimi.neunited4justice@gmail.com	New England United for Justice
Aliya	Zwyer	Public Policy Coordinator	Not Provided	zwyer@savetheharbor.org	Save the Harbor/Save the Bay
Chris	Mancini	Executive Director	Not Provided	Mancini@SaveTheHarbor.org	Save the Harbor/Save the Bay
Jason	Rundle	Policy Coordinator	Not Provided	Rundle@SaveTheHarbor.org	Save the Harbor/Save the Bay

Bruce	Berman	Not Provided	(617) 293-6243	Bruce@bostonharbor.com	Save the Harbor/Save the Bay
Heather	Clish	Director of Conservation & Recreation Policy	(617) 523-0655	hclish@outdoors.org	Appalachian Mountain Club
Johannes	Epke	Staff Attorney	(617) 850-1761	jepke@clf.org	Conservation Law Foundation
Amy	Boyd Rabin	Vice President of Policy	(617) 221-8258	aboydrabin@environmentalleague.org	Environmental League of Massachusetts
Zahra	Saifee	Policy & Advocacy Coordinator	(435) 632-9482	zsaifee@environmentalleague.org	Environmental League of Massachusetts
David	Queeley	Director of Projects	Not Provided	david.queeley@mysticriver.org	Mystic River Watershed Association
Heather	Miller	Not Provided	(781) 788-007	hmiller@crwa.org	Charles River Watershed Assoc.
Alice	Brown	Chief of Planning and Policy	Not Provided	abrown@bostonharbornow.org	Boston Harbor Now
Laura	Jasinski	Executive Director	Not Provided	ljasinski@thecharles.org	Charles River Conservancy
John	Walkey	Not Provided	Not Provided	JohnW@greenrootsej.org	Green Roots, Inc.
			Not Provided	info@harborkeepers.org	Harborkeepers
Gabriella	Coletta	City Councilor	Not Provided	gabriela.coletta@boston.gov	Boston City Councilor
Lydia	Edwards	State Senator	Not Provided	lydia.edwards@masenate.gov	Mass. State Senator
Adrian	Madaro	State Representative	Not Provided	adrian.madaro@mahouse.gov	Mass. State Representative
Aaron	Toffler	MCAC	Not Provided	aarontoffler@massportcac.org	Massport CAC
Kathleen	Hardaway	Vice Chair	Not Provided	Kathsyd@comcast.net	Orient Heights Neighborhood Association
Roberto	Gomez	Neighborhood Liasion, City of Boston	617-635-3485	roberto.gomez@mahouse.gov	City of Boston Neighborhood Services
Nickpour	Vahid	1201 Saratoga Street	Not Provided	vahid@novatrust.us	Bayswater Resident
Not Provided	Not Provided	20 Annavoy St.	Not Provided	brittaneybattaglino@gmail.com	Bayswater Resident
Mary	Berninger		617-549-7073	mary.berninger@gmail.com	Bayswater Resident
Not Provided	Not Provided	36 Annavoy St.	Not Provided	chris11258707@gmail.com	Bayswater Resident
Not Provided	Not Provided	14 Annavoy St,	Not Provided	bitti522@aol.com	Bayswater Resident
Not Provided	Not Provided	26 Annavoy St.	Not Provided	munroe3@msn.com	Bayswater Resident
Keeley	Fanuele	Not Provided	Not Provided	keeley.fanuele@gmail.com	EB Greenway
Gail	Miller	Not Provided	Not Provided	eastiegails@aol.com	Friends of Belle Isle Marsh
Mary	Mitchell	President, Friends of Belle Isle Marsh	Not Provided	mjmbartlett@comcast.net	President, Friends of Belle Isle Marsh
Tony	Marino	Town Manager, Winthrop	Not Provided	amarino@winthropma.gov	Town Manager, Winthrop
Jim	Letterie	Town Council President, Winthrop	Not Provided	jletterie@winthropma.gov	Town Council President, Winthrop
Jeffrey	Turco	State Representative	Not Provided	Jeffrey.Turco@mahouse.gov	State Representative
Tom	Bruno	Not Provided	Not Provided	bab2123@aol.com	
Carlos	Garcia	Not Provided	Not Provided	carlos.garcia@boston.gov	City of Boston Neighborhood Offices
		Friends of Belle Isle Marsh	Not Provided	contact@friendsofbelleislemarsh.com	Friends of Belle Isle Marsh
Not Provided	Not Provided	10 Annavoy St.	Not Provided	Not Provided	Bayswater Resident
Not Provided	Not Provided	34 Annavoy St.	Not Provided	Not Provided	Bayswater Resident
Not Provided	Not Provided	32 Annavoy St.	Not Provided	Not Provided	Bayswater Resident
Not Provided	Not Provided	30 Annavoy St.	Not Provided	Not Provided	Bayswater Resident
Jimmy	Costin	1 Main Street	Not Provided	Not Provided	Belle Isle Seafood
Mike	Carney	1 Main Street	Not Provided	Not Provided	Belle Isle Seafood
Andy	Zona	Commodore	617-567-9439	Not Provided	Orient Heights Yacht Club

Environmental Justice Screening Form

Project Name	**Saratoga Street Shoreline Restoration Project**
Anticipated Date of MEPA Filing	**December 1, 2025**
Proponent Name	**Massachusetts Port Authority (Massport)**
Contact Information (e.g., consultant)	**Chris Busch, Massport** **cbusch@massport.com** **617-568-3524** **Fiona Vardy, Foth** **Fiona.vardy@foth.com** **508-762-0784**
Public website for project or other physical location where project materials can be obtained (if available)	
Municipality and Zip Code for Project (if known)	**Boston, MA 02128**
Project Type* (list all that apply)	**Coastal Infrastructure; Resiliency**
Is the project site within a mapped 100-year FEMA flood plain? Y/N/ unknown	**Y**
Estimated GHG emissions of conditioned spaces (click **here** for GHG Estimation tool)	**Not applicable**

Project Description

1. Provide a brief project description, including overall size of the project site and square footage of proposed buildings and structures if known.

   The project aims to restore the shoreline on the site by removing the existing deteriorated timber pier and bulkhead. Additionally, it will focus on creating new coastal resource areas both within the footprint of the former pier and landward of it. By implementing these measures, the project will contribute to sustainable environmental management and enhance the overall resilience of the site and surrounding area.

2. List anticipated MEPA review thresholds (301 CMR 11.03) (if known)

   301 CMR 11.03(3)(b)1.a. – Provided that a permit is required: Alteration of coastal dune, barrier beach, or coastal bank
   301 CMR 11.03(3)(b)1.f. – alteration of ½ or more acres of any other wetlands
   301 CMR 11.03(3)(b)6 – Construction, reconstruction or Expansion of an existing solid fill structure of 1,000 or more square feet (sf)
   301 CMR 11.06(7)(b) – The Secretary shall require an EIR for any project that is located within a Designated Geographic Area (DGA) around an Environmental Justice Population

3. List all anticipated state, local and federal permits needed for the project (if known)

Table 1 – Summary of Regulatory Permits and Authorizations

Regulatory Agency	Statute / Authority	Permit / Authorization
Local		
Boston Conservation Commission	M.G.L. c. 131 §40	Order of Conditions (OOC)
State		
Massachusetts Environmental Policy Act (MEPA) Office	M.G.L. c. §§61-621	Certificate of the Secretary of Energy and Environmental Affairs
Massachusetts Department of	M.G.L. c. §§26-53 / Clean Water	Section 401 Water Quality

Environmental Protection (MassDEP)	Act 33 U.S.C. §1251 et. seq.	Certification
MassDEP Waterways Program	M.G.L. c. 91	Chapter 91 License
Federal		
U.S. Army Corps of Engineers (USACE)	Clean Water Act 33 U.S.C. 1344 §404	Pre-Construction Notification
Coastal Zone Management (CZM)	M.G.L. c 21A §§2-4A et. seq.	Federal Consistency Review (if required)

4. Identify EJ populations and characteristics (Minority, Income, English Isolation) within 5 miles of project site (can attach map identifying 5-mile radius from EJ Maps Viewer in lieu of narrative)

Please see the attached map and list of EJ populations within 1 and 5 miles of the site.

5. Identify any municipality or census tract meeting the definition of "vulnerable health EJ criteria" in the DPH EJ Tool located in whole or in part within a 1 mile radius of the project site

Vulnerable health EJ criteria located within a 1-mile radius of the project site include: Low Birth Weight, Pediatric Asthma, and Elevated Blood Lead Prevalence

6. Identify potential short-term and long-term environmental and public health impacts that may affect EJ Populations and any anticipated mitigation

The project will provide both short- and long-term environmental and public health benefits by protecting existing resource areas and adjacent infrastructure. Additionally, the creation of new coastal resources will ensure the preservation and resilience of the site. This protection is particularly important during severe weather events and in response to projected sea level rise. The project will implement measures to prevent erosion, maintaining the integrity of the coastal resource areas and reducing the risk of flooding and other related issues. Overall, the project aims to create a healthier, more sustainable environment that protects vital coastal resources and infrastructure.

7. Identify project benefits, including "Environmental Benefits" as defined in 301 CMR 11.02, that may improve environmental conditions or public health of the EJ population

The project will offer significant benefits by creating additional coastal resource areas and protecting existing ones, along with adjacent infrastructure. Immediate measures will prevent erosion of the existing resource areas and safeguard the adjacent roadway. Designed to withstand 100-year storm events, the project will provide long-term protection against severe storms. The creation and protection of coastal resource areas will contribute to sustainable environmental management and enhance resilience for the surrounding area.

8. Describe how the community can request a meeting to discuss the project, and how the community can request oral language interpretation services at the meeting. Specify how to request other accommodations, including meetings after business hours and at locations near public transportation.

Interested parties who would like to request a meeting, language interpretation, or specific accommodations are welcome to contact the project's public outreach contact, Anthony Guerriero (Massport), via email at aguerriero@massport.com

Formulario de evaluación de justicia ambiental

Nombre del proyecto	**Proyecto de restauración de la costa de Saratoga Street**
Fecha prevista de presentación ante MEPA	**1 de diciembre de 2025**
Nombre del proponente	**Autoridad Portuaria de Massachusetts (Massport)**
Información de contacto (p. ej., consultor)	**Chris Busch, Massport** **cbusch@massport.com** **617-568-3524** **Fiona Vardy, Foth** **Fiona.vardy@foth.com** **508-762-0784**
Sitio web público para el proyecto u otra ubicación física donde se pueden obtener materiales del proyecto (si está disponible)	
Municipio y código postal del proyecto (si se conoce)	**Boston, MA 02128**
Tipo de proyecto* (indique todos los que correspondan)	**Infraestructura costera; recuperación**
¿Se encuentra el sitio del proyecto dentro de un terreno inundable dentro de 100 años mapeado por la FEMA? S/N/Se desconoce	**Y**
Emisiones estimadas de GEI de los espacios acondicionados (haga clic **aquí** para acceder a la herramienta de estimación de GEI)	**No corresponde**

1. Proporcione una breve descripción del proyecto, incluido el tamaño total del sitio del proyecto y los pies cuadrados de los edificios y estructuras propuestos, si se conocen.

   El objetivo del proyecto es restaurar la costa eliminando el deteriorado muelle de madera y el mamparo que existen actualmente. Además, se centrará en la creación de nuevas zonas de recursos costeros tanto dentro de la huella del antiguo muelle como hacia tierra. Con la aplicación de estas medidas, el proyecto contribuirá a la gestión sostenible del medio ambiente y mejorará la capacidad de recuperación general del emplazamiento y la zona circundante.

2. Indique los niveles de revisión anticipada de MEPA (301 CMR 11.03) (si se conocen).
   301 CMR 11.03(3)(b)1.a. – Siempre que se requiera un permiso: Modificación de dunas costeras, playas de barrera o bancos costeros
   301 CMR 11.03(3)(b)1.f. – modificación de ½ o más acres de cualquier otro humedal
   301 CMR 11.03(3)(b)6 – Construcción, reconstrucción o ampliación de una estructura de relleno sólido existente de 1,000 pies cuadrados o más.
   301 CMR 11.06(7)(b) – El Secretario exigirá un informe de impacto ambiental (EIR) para cualquier proyecto que se ubique dentro de un Área geográfica designada (DGA) en torno a una Población de justicia ambiental

3. Enumere todos los permisos estatales, locales y federales previstos necesarios para el proyecto (si se conocen). **Tabla 1 – Resumen de permisos y autorizaciones regulatorios**

Organismo regulador	Legislación / Autoridad	Permiso / Autorización
Local		
Comisión de Conservación de Boston	M.G.L. c. 131 §40	Orden de condiciones (OOC)
Estatal		
Oficina de la Ley de Política Ambiental de Massachusetts (MEPA)	M.G.L. c. §§61-621	Certificado de la Secretaría de Energía y Asuntos Ambientales
Departamento de Protección Ambiental de Massachusetts	M.G.L. c. §§26-53 / Ley de agua limpia 33 U.S.C. §1251 et. seq.	Certificación de la calidad del agua según el artículo 401

(MassDEP)		
Programa de cursos de agua del MassDEP	M.G.L. c. 91	Capítulo 91 Licencia
Federal		
Cuerpo de Ingenieros del Ejército de los Estados Unidos (USACE)	Ley de agua limpia 33 U.S.C. 1344 §404	Notificación previa a la construcción
Gestión de las zonas costeras (CZM)	M.G.L. c 21A §§2-4A et. seq.	Revisión de la congruencia federal (de ser necesaria)

4. Identifique las poblaciones y características de justicia ambiental (EJ) (minoría, ingresos, aislamiento inglés) dentro de las 5 millas del sitio del proyecto (puede adjuntar un mapa que identifique un radio de 5 millas desde la opción Visor de mapas de EJ en lugar de texto)
   Consulte el mapa adjunto y la lista de poblaciones de justicia ambiental en un radio de 1 y 5 millas del emplazamiento.

5. Identifique cualquier municipio o sección censal que cumpla con la definición de "criterios de población de EJ con salud vulnerable" en la Herramienta de EJ del Departamento de Salud Pública (DPH) ubicado en su totalidad o en parte dentro de un radio de 1 milla del sitio del proyecto
   Los criterios de poblaciones de justicia ambiental en cuanto a salud vulnerable localizadas en un radio de 1 milla del emplazamiento del proyecto incluyen: Bajo peso al nacer, asma pediátrica y elevada prevalencia de plomo en sangre.

6. Identifique los potenciales impactos a corto y largo plazo sobre el ambiente y la salud pública que pueden afectar a las poblaciones de EJ y cualquier mitigación prevista.
   El proyecto aportará beneficios medioambientales y de salud pública a corto y largo plazo al proteger las zonas de recursos existentes y las infraestructuras adyacentes. Además, la creación de nuevos recursos costeros garantizará la preservación y recuperación del lugar. Esta protección es especialmente importante durante los fenómenos meteorológicos extremos y en respuesta a la subida prevista del nivel del mar. El proyecto aplicará medidas para prevenir la erosión, manteniendo la integridad de las zonas de recursos costeros y reduciendo el riesgo de inundaciones y otros problemas relacionados. En conjunto, el proyecto pretende crear un entorno más sano y sostenible que proteja los recursos costeros y las infraestructuras vitales.

7. Identifique los beneficios del proyecto, incluidos los "beneficios ambientales", tal como se definen en 301 CMR 11.02, que pueden mejorar las condiciones ambientales o la salud pública de la población de EJ.
   El proyecto ofrecerá importantes beneficios al crear zonas adicionales de recursos costeros y proteger las existentes, junto con las infraestructuras adyacentes. Las medidas inmediatas evitarán la erosión de las zonas de recursos existentes y salvaguardarán la calzada adyacente. Diseñado para soportar tormentas de 1 en 100 años, el proyecto proporcionará protección a largo plazo contra tormentas severas. La creación y protección de zonas de recursos costeros contribuirá a la gestión sostenible del medio ambiente y mejorará la capacidad de recuperación de la zona circundante.

8. Describa cómo la comunidad puede solicitar una reunión para analizar el proyecto y cómo la comunidad puede solicitar servicios de interpretación de lenguaje oral en la reunión. Especifique cómo solicitar otras adaptaciones, incluidas reuniones fuera del horario laboral y en lugares cercanos al transporte público.
   Las partes interesadas que deseen solicitar una reunión, interpretación lingüística o adaptaciones específicas pueden ponerse en contacto con el responsable de divulgación pública del proyecto, Anthony Guerriero (Massport), a través de la siguiente dirección de correo electrónico aguerriero@massport.com

نموذج فحص العدالة البيئية

اسم المشروع	**مشروع ترميم الخط الساحلي لشارع ساراتوجا**	
التاريخ المتوقع لتعبئة طلب قانون السياسة البيئية في ولاية ماساتشوستس (MEPA)	**1 ديسمبر 2025**	
اسم مُقدِّم الاقتراح	**هيئة ميناء ماساتشوستس (Massport)**	
بيانات جهة الاتصال (مثال: الاستشاري)	**Chris Busch, Massport** **cbusch@massport.com** **617-568-3524**	**Fiona Vardy, Foth** **Fiona.vardy@foth.com** **508-762-0784**
الموقع الإلكتروني العام للمشروع أو أي موقع مادي آخر يمكن من خلاله الحصول على مواد المشروع (إذا كانت متوفرة)		
البلدية والرمز البريدي للمشروع (إذا كان معروفًا)	**بوسطن، ماساتشوستس 02128**	
نوع المشروع* (اكتب كل الأنواع التي تنطبق)	**البنية التحتية الساحلية؛ المرونة**	
هل يقع موقع المشروع ضمن السهل المتوقع أن يغمره الفيضان خلال 100 عام وفقًا لتقديرات الوكالة الفيدرالية لإدارة الطوارئ (FEMA)؟ نعم/لا/لا أعلم	**Y**	
تقديرات انبعاثات الغازات الدفيئة من المساحات المُكيَّفة (انقر هنا للحصول على أداة تقدير الغازات الدفيئة).	**لا ينطبق**	

وصف المشروع

1- اكتب وصفًا موجزًا للمشروع يتضمن المساحة الإجمالية لموقع المشروع ومساحة المباني والهياكل المُقترحة بالقدم المربعة إذا كانت معروفة. **يهدف المشروع إلى ترميم الخط الساحلي للموقع من خلال إزالة الرصيف الخشبي والحاجز الخشبي المتدهور الحالي. كما سيركز على إنشاء مناطق ساحلية جديدة داخل نطاق الرصيف السابق وعلى اليابسة منه. ومن خلال تنفيذ هذه التدابير، سيساهم المشروع في الإدارة البيئية المستدامة وتعزيز المرونة الشاملة للموقع والمنطقة المحيطة به.**
2- اكتب عتبات المراجعة المُتوقَّعة المفروضة بموجب قانون السياسة البيئية في ولاية ماساتشوستس (MEPA) (القانون 301 CMR [11.03]) (إذا كانت معروفة) **301 مدونة لوائح ماساتشوستس 11.03(3)(ب)(1.أ) - شريطة الحصول على تصريح: تغيير الكثبان الرملية الساحلية، أو الشاطئ الحاجز، أو الضفة الساحلية** **301 مدونة لوائح ماساتشوستس 11.03(3)(ب)(1.و) - تغيير نصف فدان أو أكثر من أي أراضٍ رطبة أخرى** **301 مدونة لوائح ماساتشوستس 11.03(3)(ب)(6) - إنشاء أو إعادة بناء أو توسيع هيكل ردم صلب قائم مساحته 1,000 قدم مربع أو أكثر** **301 مدونة لوائح ماساتشوستس 11.06 (7) (ب) - يجب على الوزير طلب تقرير تقييم الأثر البيئي لأي مشروع يقع داخل منطقة جغرافية محددة (DGA) حول منطقة عدالة بيئية**

الجدول 1 - ملخص التصاريح والتراخيص التنظيمية

الوكالة التنظيمية	القانون / السلطة	تصريح / تفويض
اللجنة المحلية		
لجنة الحفاظ على البيئة في بوسطن	قوانين ماساتشوستس العامة المذكورة في 131 §40	ترتيب الشروط (OOC)
الولاية		
-مكتب قانون سياسة البيئة في ماساتشوستس(MEPA)	قوانين ماساتشوستس العامة المذكورة في §61-621	شهادة وزير الطاقة وشئون البيئة
وزارة حماية البيئة في ماساتشوستس(MassDEP)	قوانين ماساتشوستس العامة المذكورة في §26-53 / قانون المياه النظيفة 33 قانون الولايات المتحدة §1251 وما يليه	شهادة جودة المياه بموجب المادة 401
برنامج الممرات المائية في وزارة حماية البيئة في ماساتشوستس	قوانين ماساتشوستس العامة المذكورة في 91	الفصل 91 الترخيص
الهيئة الفيدرالية		
فيلق المهندسين بالجيش الأمريكي(USACE)	قانون المياه النظيفة 33 قانون الولايات المتحدة 1344 §404	إشعار ما قبل البناء
إدارة المناطق الساحلية(CZM)	قوانين ماساتشوستس العامة المذكورة في A §2-4A21 وما يليه	مراجعة الاتساق الفيدرالي (إذا لزم الأمر)

3- حدِّد سكان مناطق العدالة البيئية والخصائص التي يتميزون بها (الأقلية والدخل والانعزال عن اللغة الإنجليزية) في نطاق 5 أميال من موقع المشروع (يمكنك إرفاق خريطة تحدد نصف القطر البالغ 5 أميال من عارض خرائط مناطق العدالة البيئية بدلاً من اتباع أسلوب السرد)

يرجى الاطلاع على الخريطة المرفقة وقائمة تجمعات EJ ضمن مسافة 1 و5 أميال من الموقع.

4- حدِّد أي بلدية أو منطقة تعداد سكاني تستوفي تعريف "معايير الصحة الضعيفة في منطقة العدالة البيئية " في أداة وزارة الصحة العامة (DPH) للعدالة البيئية التي تقع بأكملها أو جزء منها في نطاق نصف قطر 1 ميل من موقع المشروع.

تتضمن معايير EJ الصحية المعرضة للخطر الواقعة ضمن دائرة نصف قطرها 1 ميل من موقع المشروع ما يلي: انخفاض الوزن عند الولادة، والربو عند الأطفال، وارتفاع معدل انتشار الرصاص في الدم

5- حدِّد الآثار المحتملة على المدى القصير والطويل على البيئة والصحة العامة التي قد تؤثر في سكان مناطق العدالة البيئية، وحدِّد أي تدابير متوقعة لتخفيف الآثار.

سيوفر المشروع فوائد بيئية وصحية عامة على المدى القصير والطويل من خلال حماية مناطق الموارد الحالية والبنية التحتية المجاورة. بالإضافة إلى ذلك، سيضمن إنشاء موارد ساحلية جديدة الحفاظ على الموقع ومرونته. وتكتسب هذه الحماية أهمية خاصة أثناء الظواهر الجوية القاسية واستجابةً للارتفاع المتوقع لمستوى سطح البحر. سينفذ المشروع تدابير لمنع التآكل، والحفاظ على سلامة مناطق الموارد الساحلية والحد من مخاطر الفيضانات وغيرها من المشاكل ذات الصلة. وبشكل عام، يهدف المشروع إلى خلق بيئة أكثر صحة واستدامة تحمي الموارد الساحلية الحيوية والبنية التحتية.

6- حدِّد فوائد المشروع، التي يشمل "الفوائد البيئية" وفقًا للمنصوص عليه في القانون [[301 CMR 11.02، والتي قد تحسن الظروف البيئية أو أوضاع الصحة العامة لسكان منطقة العدالة البيئية.

سيوفر المشروع فوائد كبيرة من خلال إنشاء مناطق موارد ساحلية إضافية وحماية المناطق القائمة، إلى جانب البنية التحتية المجاورة. ستمنع التدابير الفورية تآكل مناطق الموارد الحالية وتحمي الطريق المجاور. تم تصميم المشروع لتحمل أحداث العواصف التي تستمر 100 عام، وسيوفر حماية طويلة الأمد ضد العواصف الشديدة. حيث سيساهم إنشاء مناطق الموارد الساحلية وحمايتها في الإدارة البيئية المستدامة وتعزيز المرونة للمنطقة المحيطة.

7- صف كيف يستطيع المجتمع طلب عقد اجتماع لمناقشة المشروع، وكيف يستطيع المجتمع طلب توفير خدمات الترجمة الفورية في الاجتماع. حدِّد كيف يمكن طلب التجهيزات والترتيبات الأخرى التي تشمل عقد الاجتماعات بعد ساعات العمل وفي مواقع قريبة من وسائل النقل العام.

يمكن للأطراف المهتمة التي ترغب في طلب عقد اجتماع أو ترجمة لغوية أو ترتيبات محددة الاتصال بجهة الاتصال بالتواصل العام للمشروع Anthony Guerriero (Massport) ، عبر البريد الإلكتروني على aguerriero@massport.com

Attachment I

List of Municipal and Federal Permits and Reviews

Agency	Permit/License/Approval	Reason of Required Permit
City of Boston Conservation Commission	Order of Conditions	Work is proposed within and near wetland resource areas
United States Army Corps of Engineers	Pre-Construction Notification	Stabilization activities in Waters of the U.S. (WOTUS)

Attachment J

Circulation List

MEPA Distribution List

Agency	Email Address	Address
Massachusetts Environmental Policy Act (MEPA) Office	MEPA@mass.gov	**MEPA Office** 100 Cambridge Street, Suite 900 Boston, MA 02114
Department of Environmental Protection, Boston Office	helena.boccadoro@mass.gov	**Commissioner's Office** One Winter Street Boston, MA 02108
Department of Environmental Protection, Appropriate Regional Office and to each program from which a permit will be sought	Sean.Gonsalves@mass.gov	**DEP/Western Regional Office** Attn: MEPA Coordinator State House West - 4th floor 436 Dwight Street Springfield, MA 01103
	george.zoto@mass.gov jonathan.hobill@mass.gov	**DEP/Southeastern Regional Office** Attn: MEPA Coordinator 20 Riverside Drive Lakeville, MA 02347
	andrea.briggs@mass.gov	**DEP/Central Regional Office** Attn: MEPA Coordinator 8 New Bond Street Worcester, MA 01606
	john.d.viola@mass.gov	**DEP/Northeast Regional Office** Attn: MEPA Coordinator 150 Presidential Way Woburn, MA 01801
Massachusetts Department of Transportation - Boston	MassDOTPPDU@dot.state.ma.us	**Public/Private Development Unit** 10 Park Plaza, Suite #4150 Boston, MA 02116
Massachusetts Department of Transportation – District Office	Brian.Ducey@dot.state.ma.us	**District #1** Attn: MEPA Coordinator 270 Main Street Lenox, MA 01240
	bao.lang@dot.state.ma.us garrett.postema@dot.state.ma.us	**District #2** Attn: MEPA Coordinator 811 North King Street Northampton, MA 01060
	Kevin.R.Robenhymer@dot.state.ma.us Eric.Nascimento@dot.state.ma.us	**District #3** Attn: MEPA Coordinator 499 Plantation Parkway Worcester, MA 01605
	DOT-DL-D4-Planning@dot.state.ma.us	**District #4** Attn: MEPA Coordinator 519 Appleton Street Arlington, MA 02476

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	Cindy.McConarty@dot.state.ma.us	**District #5** Attn: MEPA Coordinator 1000 County Street Taunton, MA 02780
	michael.garrity@dot.state.ma.us	**District #6** Attn: MEPA Coordinator 185 Kneeland Street Boston, MA 02111
Massachusetts Historical Commission	Mail a hard copy of the filing to MHC.	**The MA Archives Building** 220 Morrissey Boulevard Boston, MA 02125
Applicable Regional Planning Agency	Refer to Regional Planning Agency list.	View list of Regional Planning Agency contacts appended to this document.
In each municipality affected by the Project	Coordinate with each municipality.	**City Council or Board of Selectmen** **Planning Board/Department** **Conservation Commission** **Department/Board of Health**
If the Project is located within five miles of an Environmental Justice Population	EEA Environmental Justice Director MEPA-EJ@mass.gov	**MEPA Office** Attn: EEA EJ Director 100 Cambridge Street, Suite 900 Boston, MA 02144
If the project is in a Coastal Zone Community	sean.duffey@mass.gov patrice.bordonaro@mass.gov	**Coastal Zone Management** Attn: Project Review Coordinator 100 Cambridge Street, Suite 900 Boston, MA 02144
	DMF.EnvReview-North@mass.gov	**From Hull to New Hampshire Border** DMF – North Shore Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930
	DMF.EnvReview-South@mass.gov	**From Cohasset to Rhode Island Border** DMF – South Shore Attn: Environmental Reviewer 836 South Rodney French Blvd New Bedford, MA, 02744

If the project site has been in agricultural use within the last fifteen years	Jasper.L.Cowley@mass.gov	**Department of Agricultural Resources** Attn: MEPA Coordinator 138 Memorial Avenue, Suite 42 West Springfield, MA 01089
If the Project site is within or contains designated significant or estimated habitat, or priority sites of endangered or threatened species or species of special concern in accordance with the Massachusetts Endangered Species Act	melany.cheeseman@mass.gov emily.holt@mass.gov	**Natural Heritage and Endangered Species Program** Division of Fisheries & Wildlife 1 Rabbit Hill Road Westborough, MA 01581
If the Project affects DCR roadways, watersheds or other properties or an ACEC	andy.backman@mass.gov	**DCR** Attn: MEPA Coordinator 251 Causeway St. Suite 600 Boston MA 02114
If the Project implicates public health impacts	dphtoxicology@massmail.state.ma.us	**Department of Public Health** Director of Environmental Health 250 Washington Street Boston, MA 02115
If the Project is subject to Greenhouse Gas Emissions Policy or to review by Energy Facilities Siting Board	andrew.greene@mass.gov yonathan.mengesha@mass.gov	**Energy Facilities Siting Board** Attn: MEPA Coordinator One South Station Boston, MA 02110
	paul.ormond@mass.gov	**Department of Energy Resources** Attn: MEPA Coordinator 100 Cambridge Street, 10th floor Boston, MA 02114
If the Project is in a municipality served by the Massachusetts Water Resources Authority (MWRA)	Hillary.Monahan@mwra.com	**Massachusetts Water Resource Authority** Attn: MEPA Coordinator 33 Tafts Avenue Deer Island Boston, MA 02128
If the Project affects Massachusetts Bay Transportation Authority (MBTA) facilities or properties	MEPAcoordinator@mbta.com jblankenship@mbta.com	**Massachusetts Bay Transit Authority** Attn: MEPA Coordinator 10 Park Plaza, 6th Fl. Boston, MA 02116-3966

Any other Agency from which an Agency Action (including Permits, Land Transfers and Financial Assistance) may be required for the Project

Regional Planning Agency Distribution List

Find your Regional Planning Agency (RPA) here by clicking on the statewide map at the bottom of the webpage.

Regional Planning Agency	Email and/or Mailing Address
Berkshire Regional Planning Commission (BRPC)	tmatuszko@berkshireplanning.org mprovencher@berkshireplanning.org OfficeAssistant@berkshireplanning.org
Cape Cod Commission (CCC)	ksenatori@capecodcommission.org regulatory@capecodcommission.org
Central Massachusetts Regional Planning Commission (CMRPC)	mepafiling@cmrpc.org
Franklin Regional Council of Governments (FRCOG) 12 Olive Street, Suite 2 Greenfield, MA 01301	Jessica Atwood and 1 hard copy (Attn: see address to the left) jatwood@frcog.org kmacphee@frcog.org adonlon@frcog.org
Martha's Vineyard Commission (MVC)	turner@mvcommission.org morrison@mvcommission.org
Merrimack Valley Planning Commission (MVPC)	info@mvpc.org
Metropolitan Area Planning Council (MAPC)	mpillsbury@mapc.org afelix@mapc.org
Montachusett Regional Planning Commission (MRPC)	mrpc@mrpc.org
Nantucket Planning and Economic Development Commission (NPEDC)	avorce@nantucket-ma.gov
Northern Middlesex Council of Governments (NMCOG) 672 Suffolk Street, Suite 100 Lowell, MA 01854	mtenhoff@nmcog.org jraitt@nmcog.org and 1 hard copy (Attn Jennifer Raitt; see address to the left)
Pioneer Valley Planning Commission (PVPC) 60 Congress Street, 1st Floor Springfield, MA 01104-3419	gmroux@pvpc.org and 1 hard copy (Attn Gary Roux; see address to the left)
Old Colony Planning Council (OCPC)	mwaldron@ocpcrpa.org kmowatt@ocpcrpa.org ckilmer@ocpcrpa.org
Southeastern Regional Planning and Economic Development District (SRPEDD)	jwalker@srpedd.org gking@srpedd.org dbelknap@srpedd.org ldeoliveira@srpedd.org lestrela@srpedd.org

Revised 11/24/2025

Attachment K

Preliminary Design and Restoration Plan

GRAPHIC SCALE

0 15 30 60

(IN FEET)

1 INCH = 30 FEET

SARATOGA STREET (RTE. 145)

100' BUFFER TO ROCKY INTERTIDAL SHORE

100' BUFFER TO LAND UNDER OCEAN

EX. GRANITE SEAWALL (VARYING HEIGHT)

EX. BRIDGE ABUTMENT APRON/RIPRAP

ROCKY INTERTIDAL SHORE

PROP. EXPOSED REVETMENT

PROP. BURIED REVETMENT

APPROX. 6,400 SF ADDED RESOURCE AREA

PROP. COBBLE BEACH

EX. TIMBER BULKHEAD AND PIER (TO BE DEMOLISHED)

BELLE ISLE INLET

100' BUFFER TO COASTAL BEACH

100' BUFFER TO COASTAL BEACH

PROP. EXCAVATION AREA

EBB

FLOOD

ENTIRE SITE WITHIN FEMA ZONE AE (EL. 10' NAVD88)

PROP. CONTOUR (TYP)

APPROX 15,500 SF ADDED RESOURCE AREA

APPROX. PROPERTY BOUNDARY (TYP.)

EX. STONE/CONCRETE BLOCK SEAWALL

FEMA ZONE AE (EL. 10' NAVD88)

LAND UNDER OCEAN

MHW = 4.6'

MLW = -4.9'

COASTAL BEACH

SHELLFISH SUITABILITY AREA (MASSMAPPER)

SHALLOW/SALT MARSH (MASSMAPPER)

LOCATION MAP

GENERAL NOTES:

1. TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS COLLECTED BY FOTH INFRASTRUCTURE & ENVIRONMENT, LLC. ON 05/17/2023.
2. HORIZONTAL DATUM SHOWN IS BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM - MAINLAND ZONE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).
3. THE VERTICAL DATUM SHOWN REFERENCES THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO ELEVATIONS ABOVE THE VERTICAL REFERENCE PLANE.
5. LIMITS OF SALT MARSH AND SHALLOW MARSH ARE APPROXIMATE AND BASED ON DATA AVAILABLE FROM MASSMAPPER GIS LAYERS.

SHEET 1 OF 2

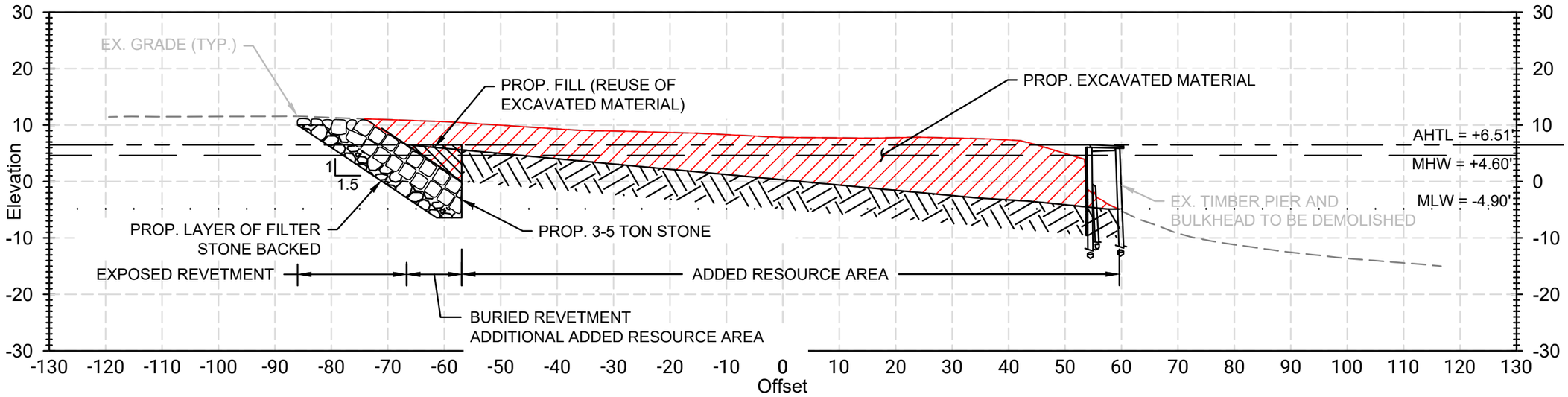
1257 & 1263 SARATOGA STREET
EAST BOSTON, MA

PRELIMINARY DESIGN AND RESTORATION PLAN

DATE: OCT 2025	REV. DATE:
DRAWN BY: CJS4	CHECKED BY:
PROJECT NO: 0023M060	

Foth

Monday, 27 October, 2025 15:32:49
DWG Filename: 20231102-saratoga st-mtigation 2.dwg Layout: existing conditions plan



A/2 PROPOSED TYPICAL SECTION
SCALE: 1" = 20'

GRAPHIC SCALE
0 10 20 40
(IN FEET)
1 INCH = 20 FEET

GENERAL NOTES:

1.) TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS COLLECTED BY FOTH INFRASTRUCTURE & ENVIRONMENT, LLC. ON 05/17/2023.
2.) HORIZONTAL DATUM SHOWN IS BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM - MAINLAND ZONE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83).
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1257 & 1263 SARATOGA STREET
EAST BOSTON, MA
PROPOSED CROSS SECTION
PRELIMINARY DESIGN AND RESTORATION PLAN

SHEET 2 OF 2

DATE: OCT 2025	REV. DATE:
DRAWN BY: CJS4	CHECKED BY:
PROJECT NO: 0023M060	

Foth

Monday, 27 October, 2025 15:32:50
DWG Filename: 20231102-saratoga st-mtigation 2.dwg Layout: prop alt x sect